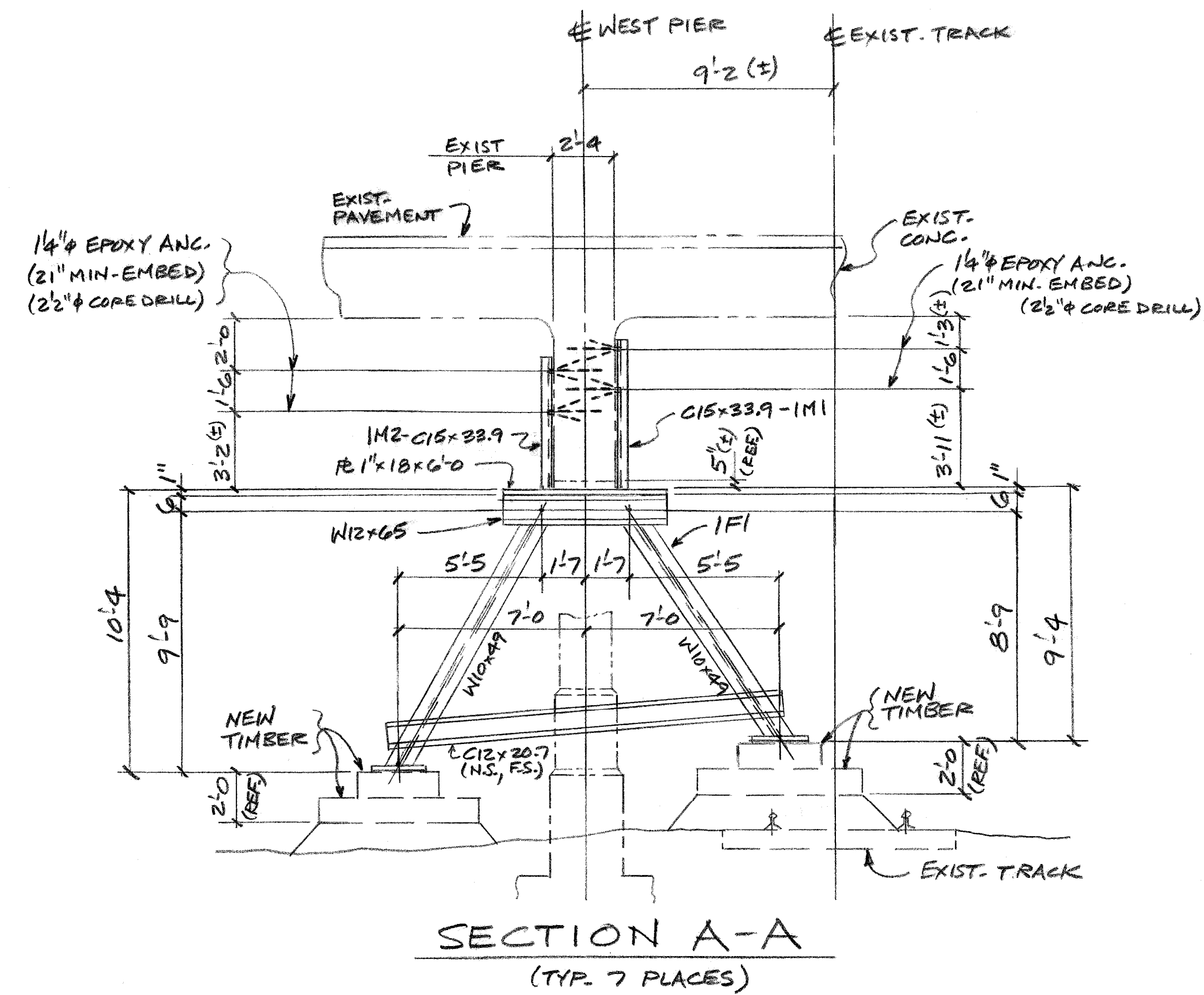
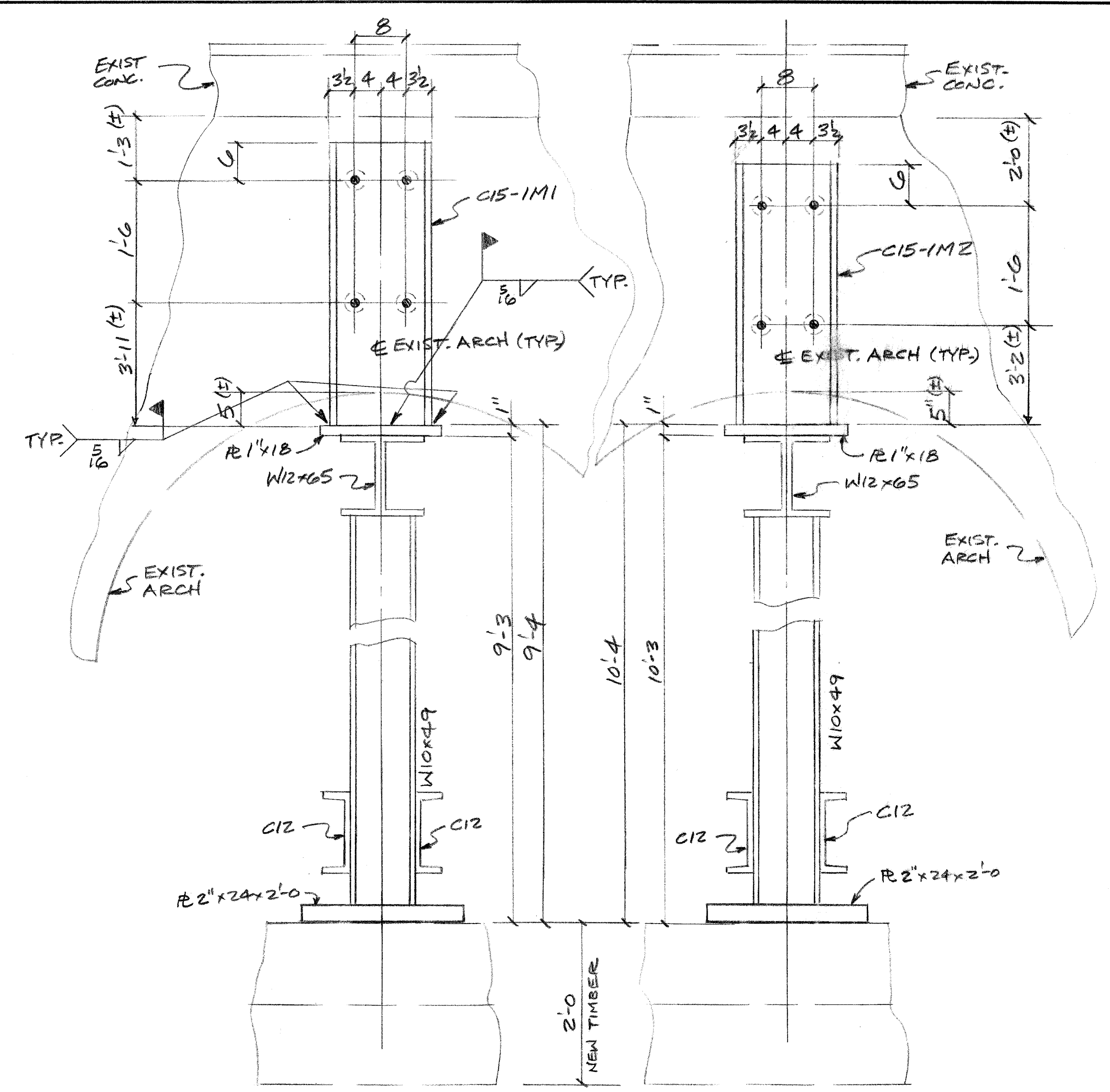


PLAN @ NEW (TEMP.) SUPPORTS



SECTION A-A
(TYP. 7 PLACES)



SECTION B-B

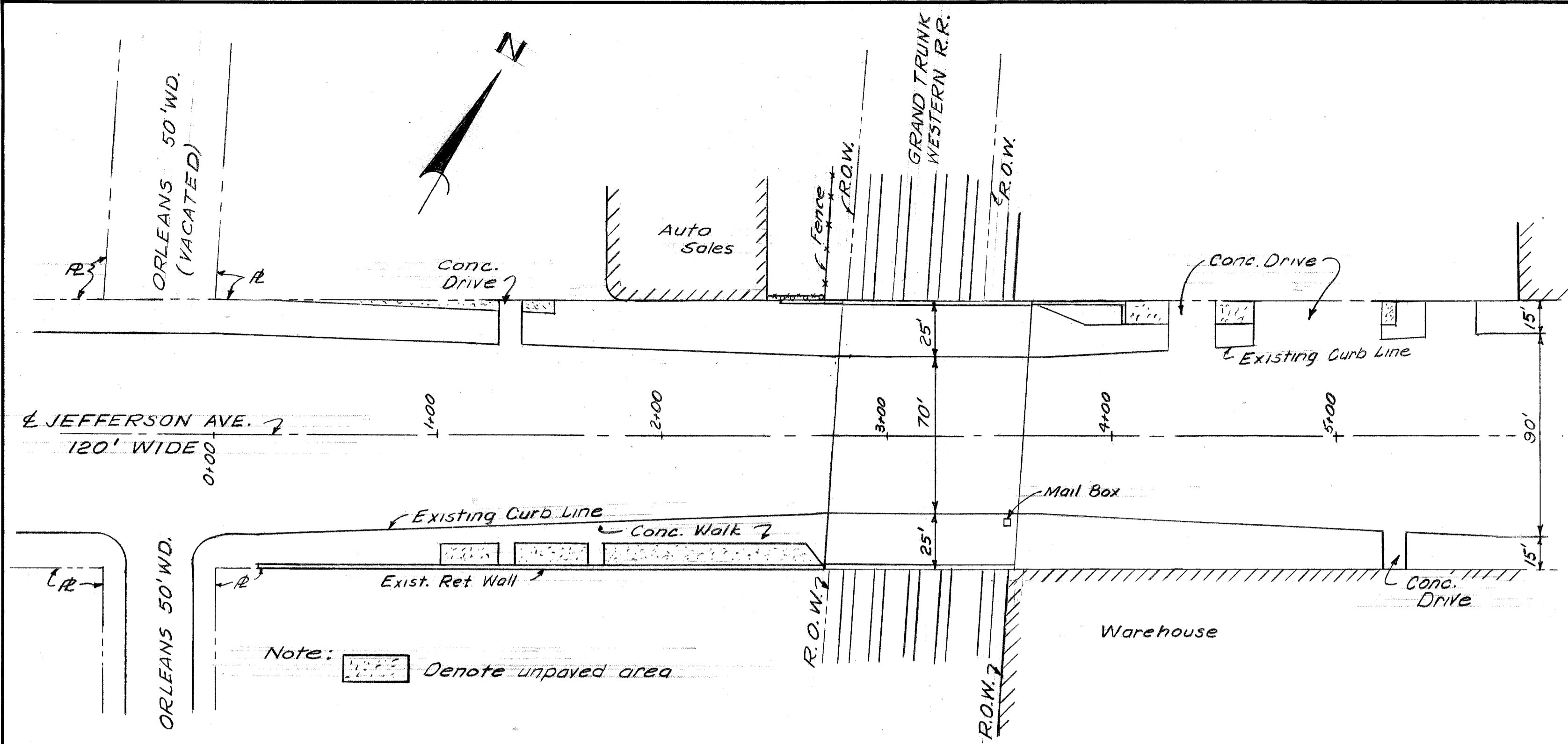
SECTION C-C

REVISION	DATE	BY	REMARKS
1			
2			
3			
4			
5			
6			

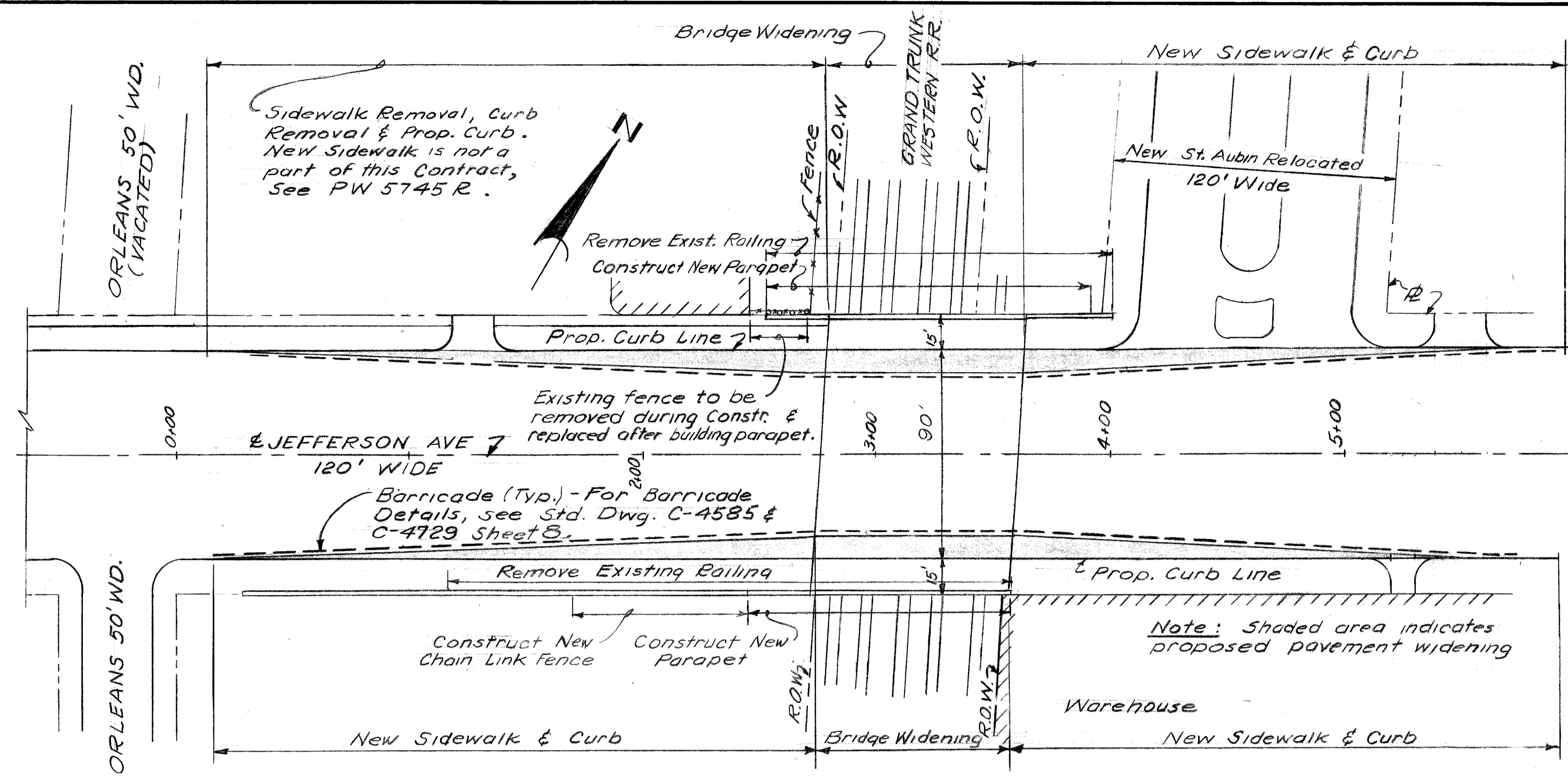
DELTA IRON WORKS
1801 MELDRUM AVE
DETROIT MICH. 48207
313-579-1445

CUSTOMER: City of Detroit
ARCHITECT: TUCKER, YOUNG, JACKSON, TOLL INC.
JOB: JEFFERSON AVE BRIDGE OVER GTWRR
DETAILS OF: PLANS & SECTION

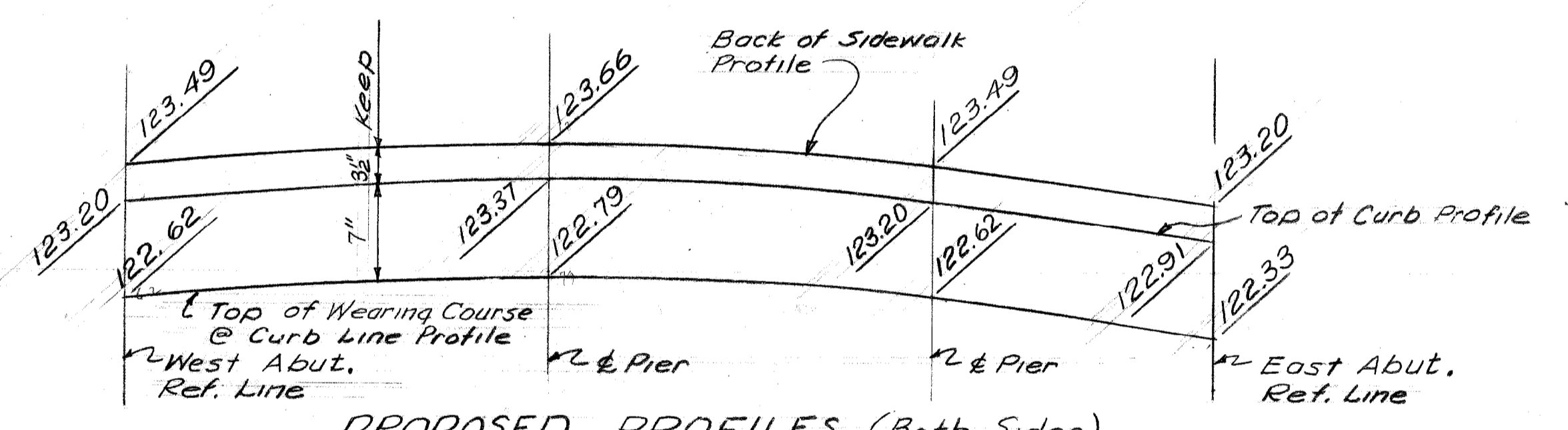
SCALE	DRAWN BY: <i>BC</i>	CONTRACT NO. 99-022
	DATE 8/23/99	
	CHECKED BY: <i>BC</i>	SHEET E1 OF
	DATE 8/24/99	



LOCATION PLAN
Scale: 1" = 40'

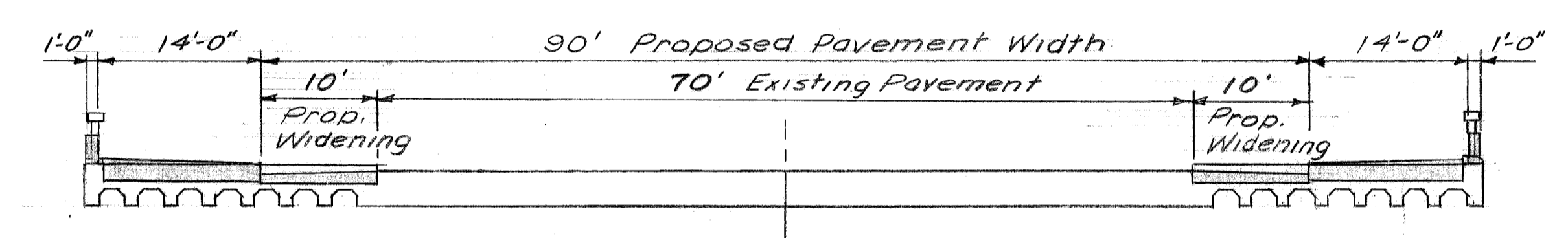


PLAN of PROPOSED WORK
Scale: 1" = 40'



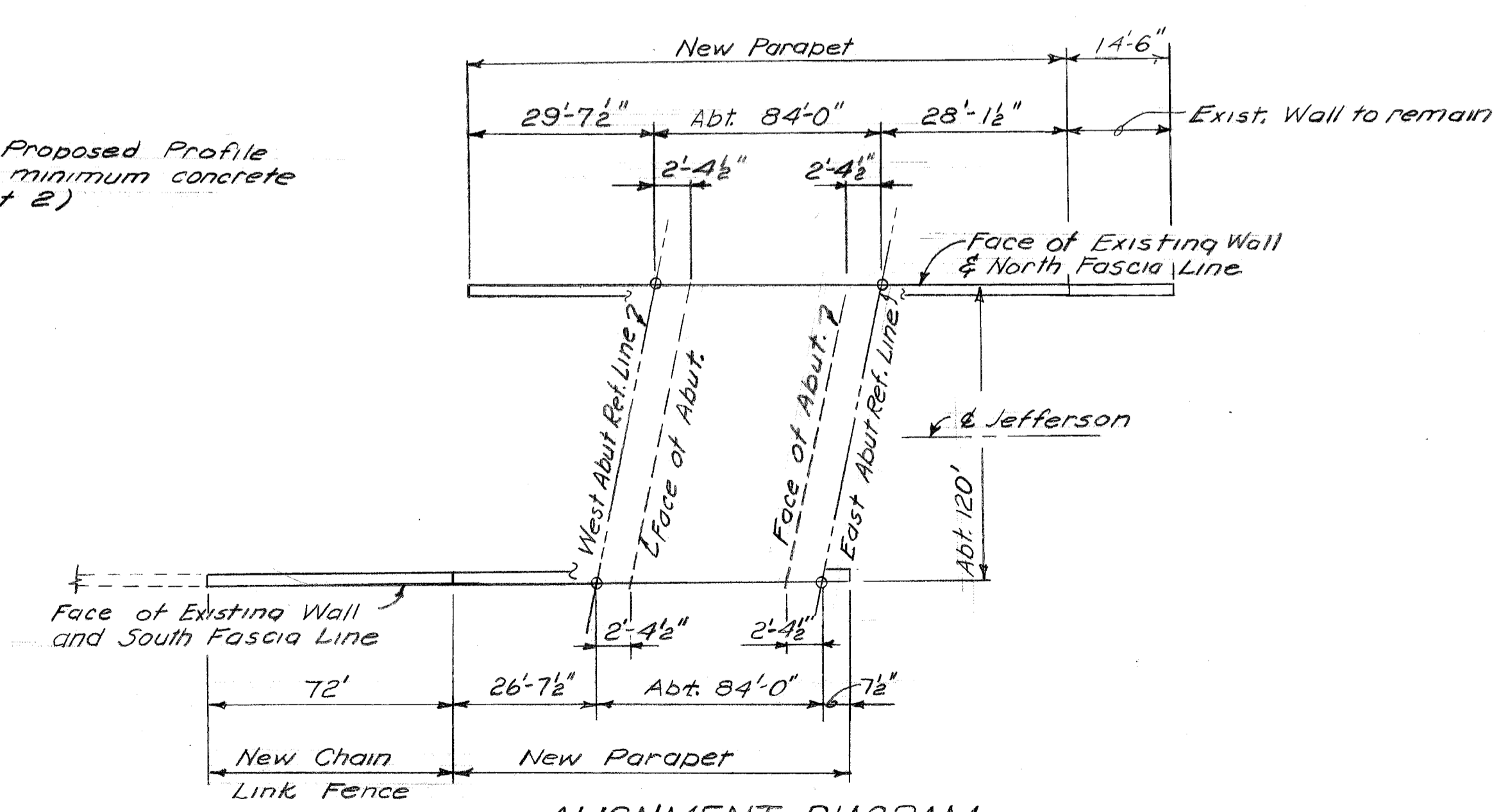
PROPOSED PROFILES (Both Sides)
Scale: 1" = 1'-0" Vert.
1" = 10'-0" Hor.

Note: The Engineer shall field-adjust Proposed Profile elevations if required to keep 5" minimum concrete slab. (See Section B-B sheet 2)



SECTION THRU BRIDGE DECK
Scale: 3/32" = 1'-0"

Note: Shaded area indicates proposed work



ALIGNMENT DIAGRAM
No Scale

COORD	DESCRIPTION	DRN	CHKD	APVD	DATE
REVISIONS LOCATED BY COORDINATES ON SHEET					

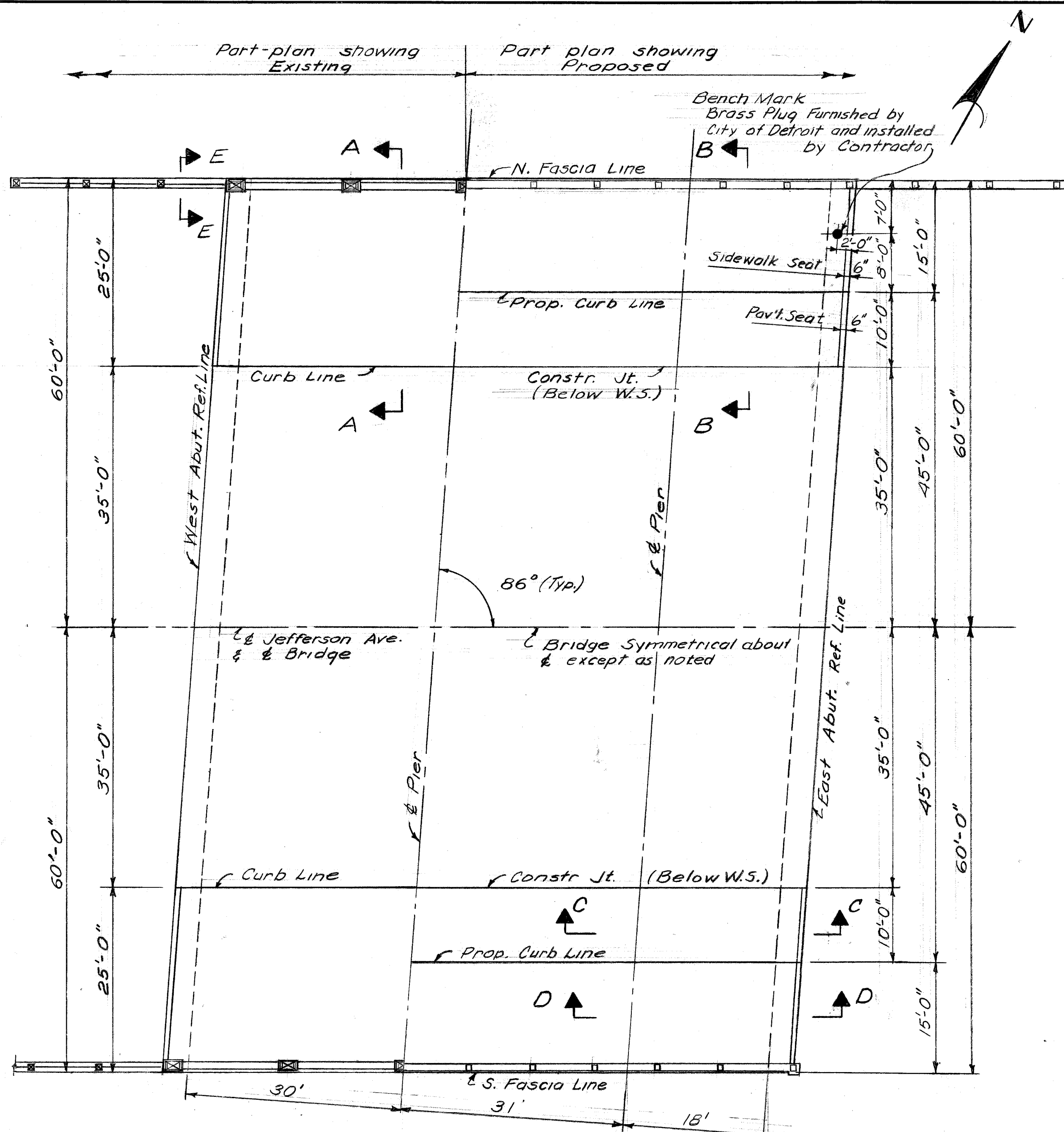
DESIGNED BY	Locher
DRAWN BY	Locher
TRACED BY	-
CHECKED BY	STURM

APPROVED:	<i>C. C. Adlner</i> STRUCTURAL ENGINEER
	<i>afred Bernarducci</i> ASSOCIATE CITY ENGINEER
	CITY ENGINEER

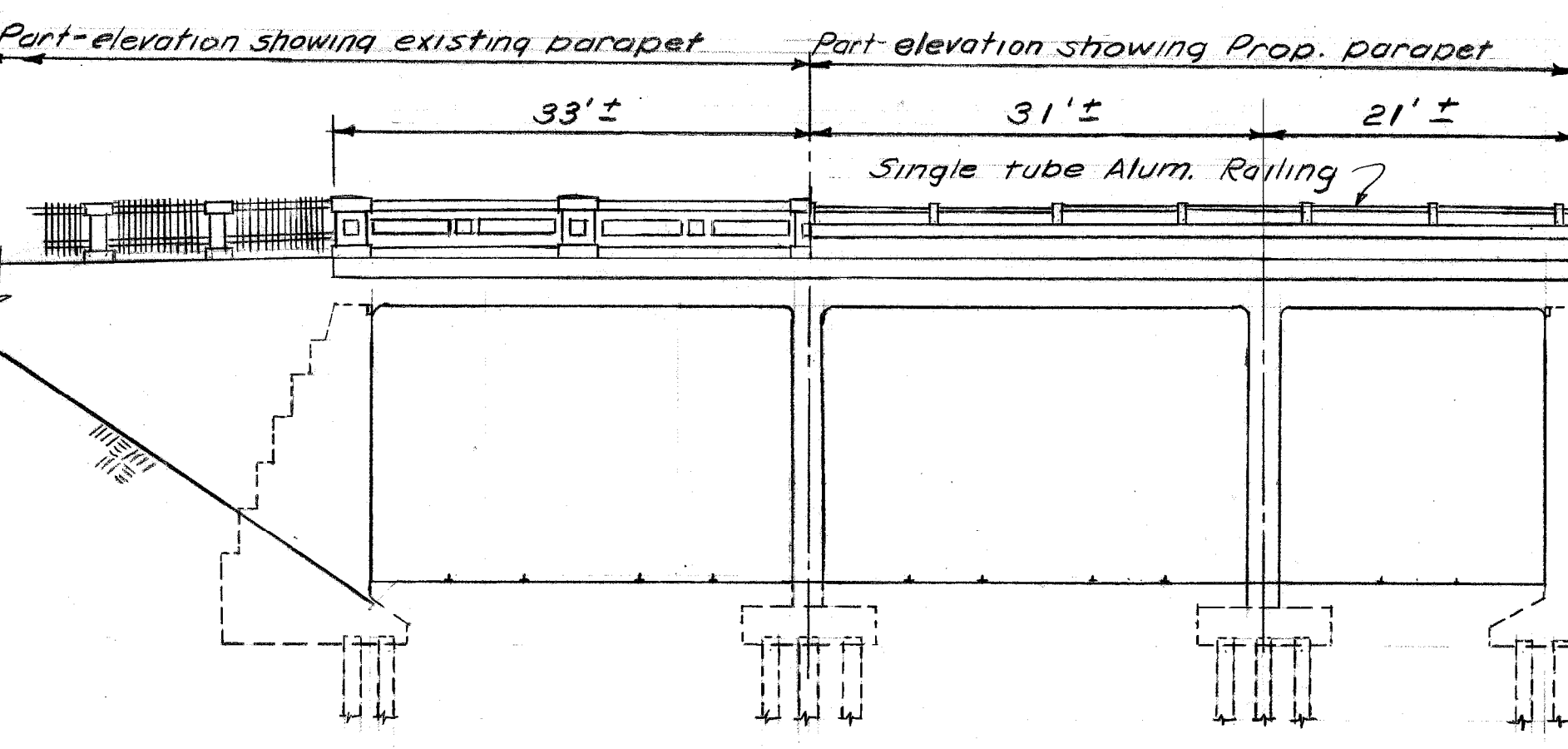
CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
HIGHWAY & EXPRESSWAY DIVISION
BRIDGE WIDENING

JEFFERSON AVE BRIDGE X068
OVER
GT.W.R.R.
GENERAL PLAN OF SITE

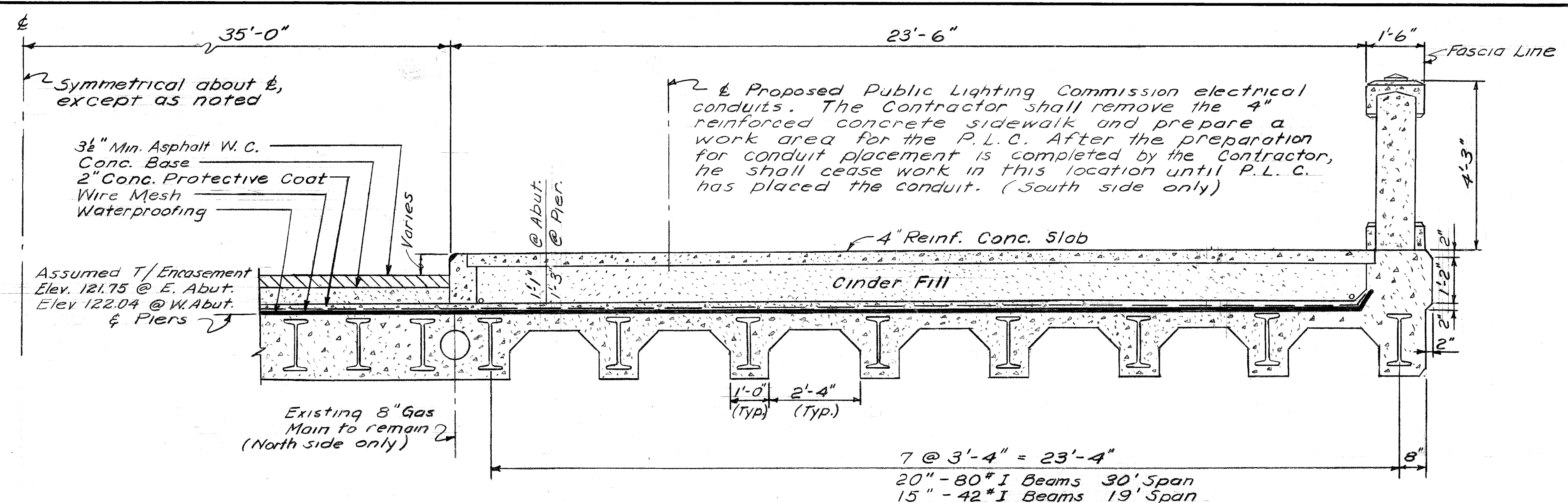
SHEET 1 OF 8 SHEETS
JOB No. PW 5752
DRWG No. C-101
DATE OCT. 1966



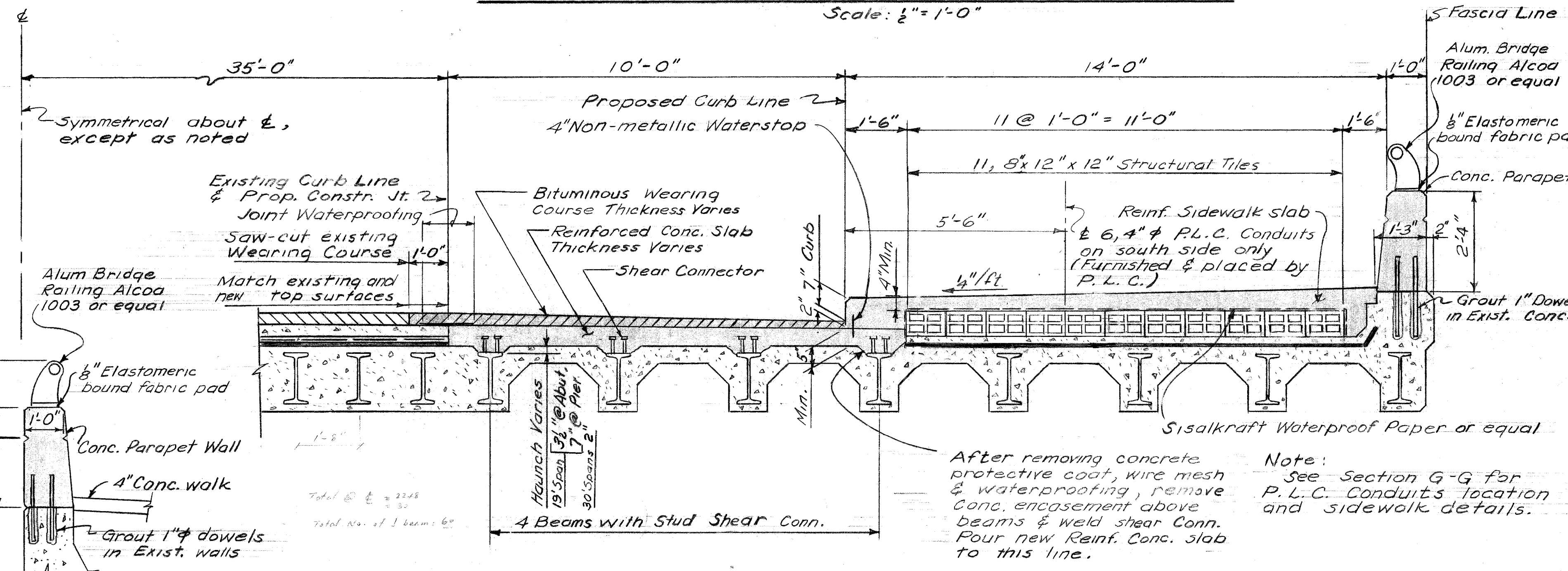
PLAN
Scale: 3/32" = 1'-0"



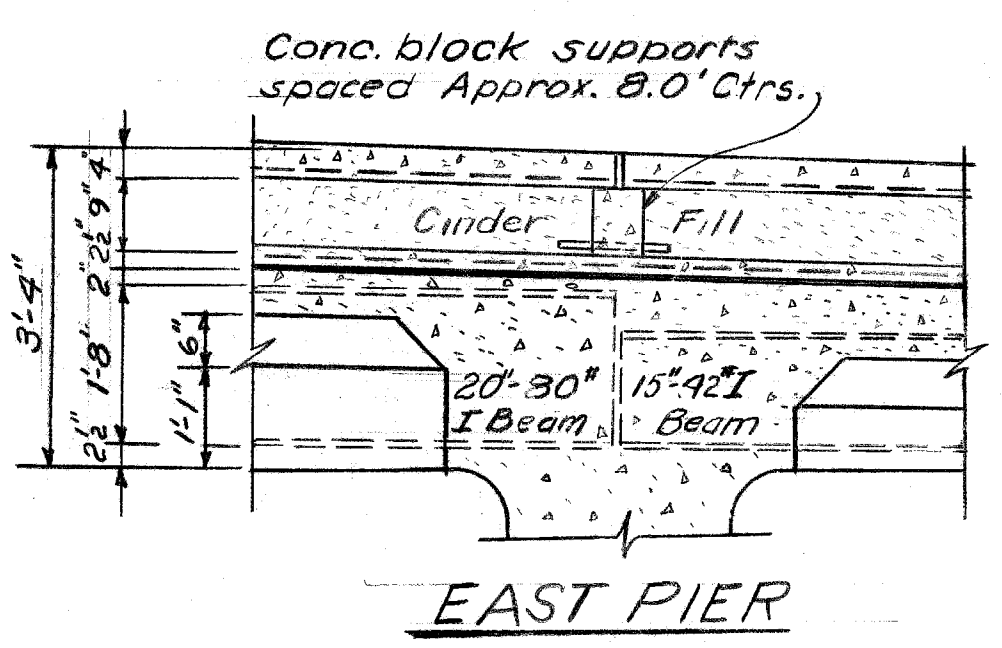
ELEVATION
Scale: 3/32" = 1'-0"



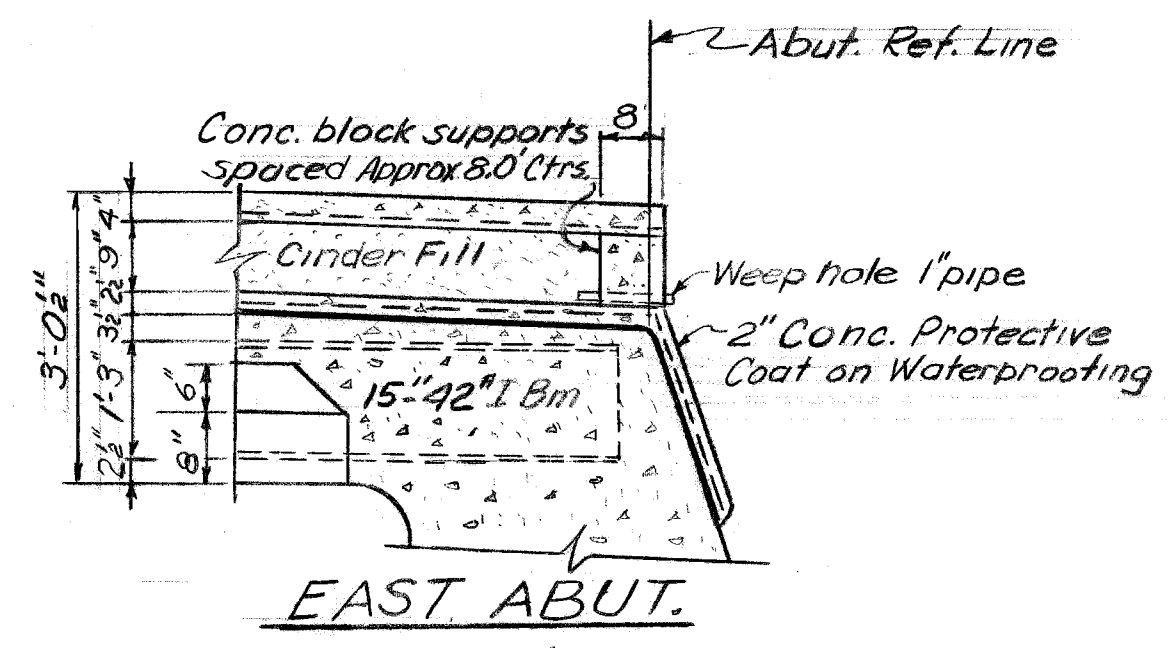
EXISTING TYPICAL SECTION A-A THRU DECK @ CURB
Scale: 1/2" = 1'-0"



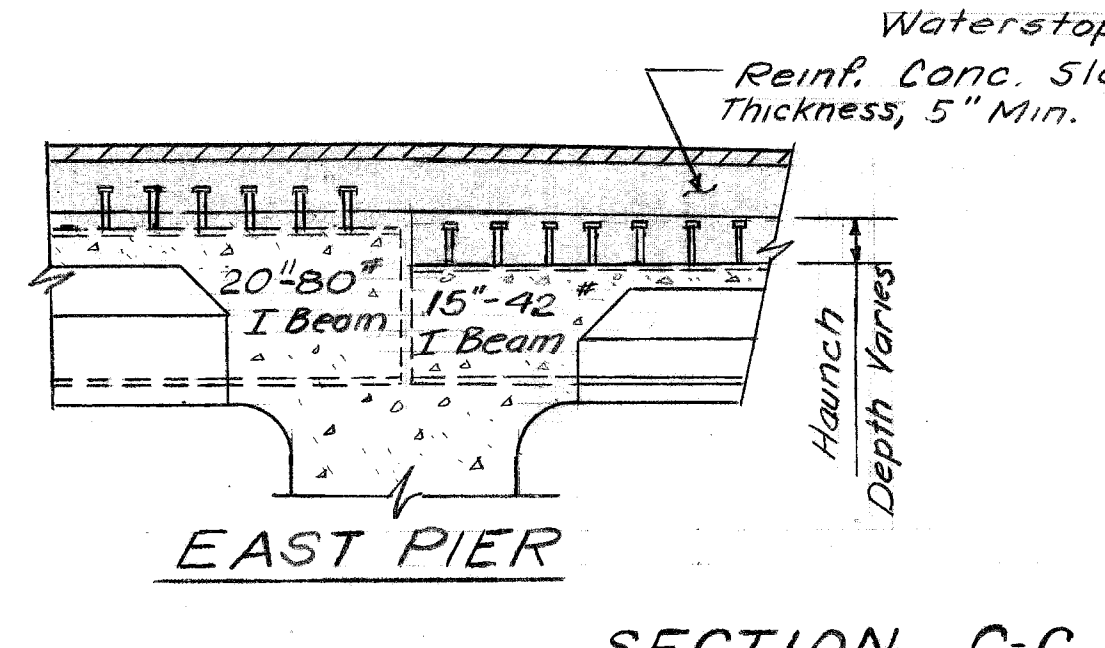
PROPOSED TYPICAL SECTION BB THRU DECK @ CURB
Scale: 1/2" = 1'-0"



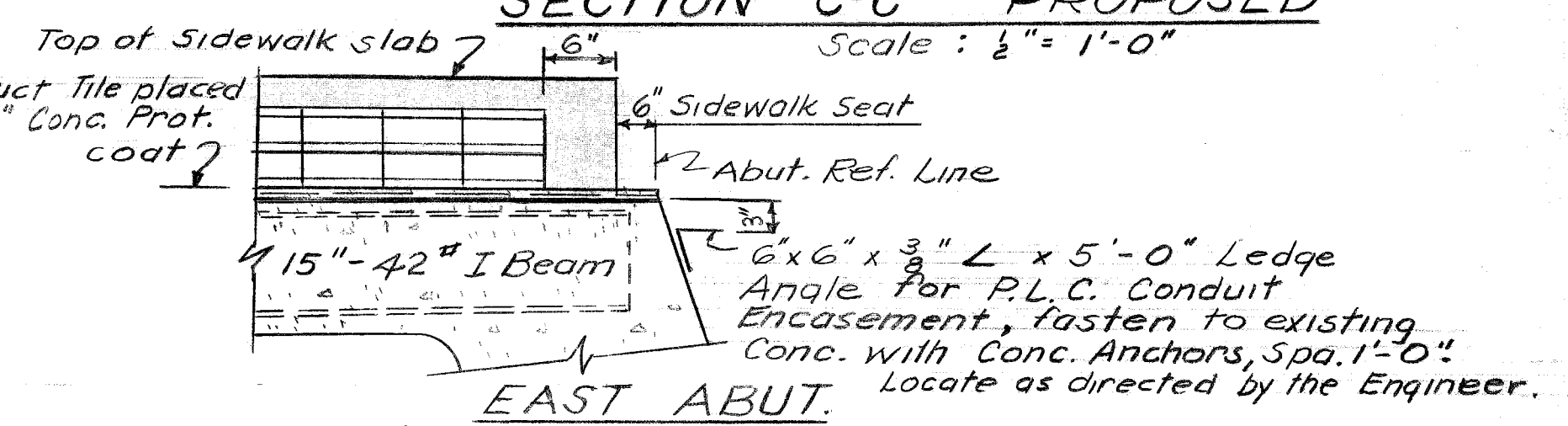
SECTION CC - EXISTING
Scale: 1/2" = 1'-0"



EAST PIER



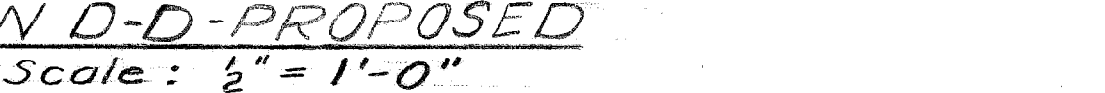
EAST ABUT.



SECTION C-C - PROPOSED
Scale: 1/2" = 1'-0"



EAST PIER



EAST ABUT.

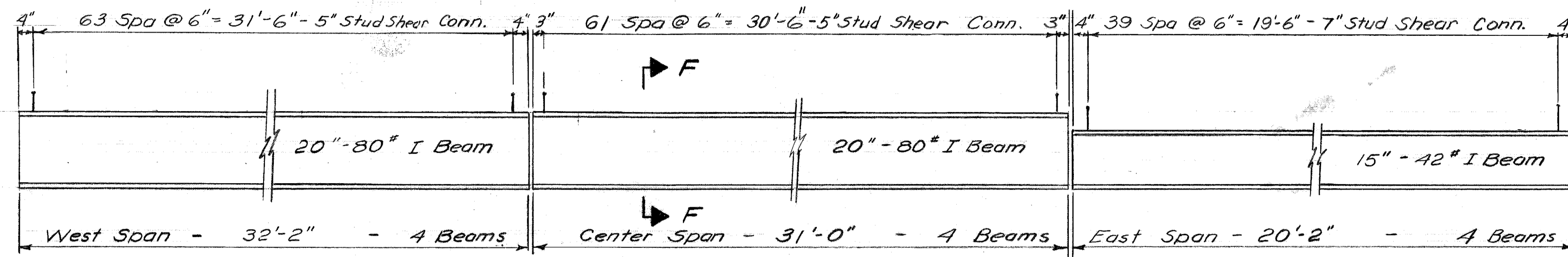
SECTION D-D - PROPOSED
Scale: 1/2" = 1'-0"

DESIGNED BY	Locher	APPROVED	<i>C. L. Loder</i> STRUCTURAL ENGINEER
DRAWN BY	Locher		<i>afred Bernarducci</i> ASSOCIATE CITY ENGINEER
TRACED BY			
CHECKED BY	STURM		CITY ENGINEER

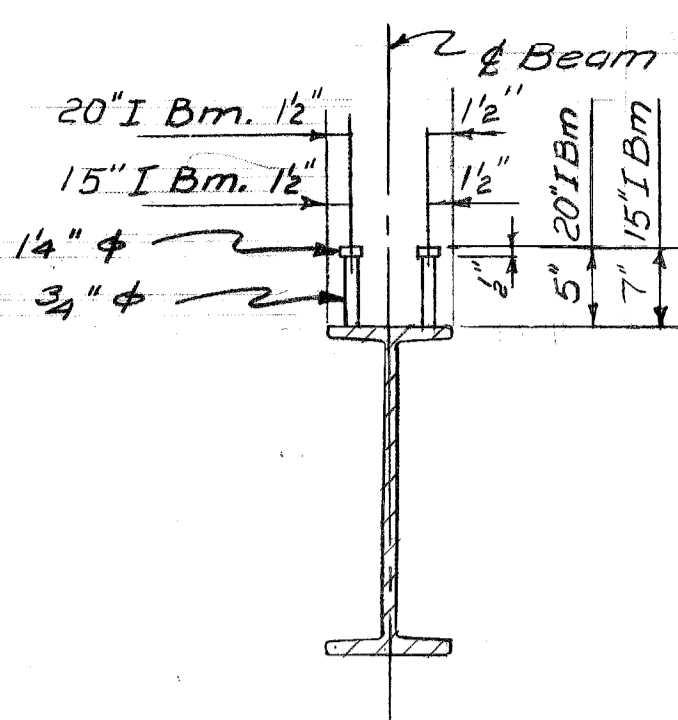
CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
HIGHWAY & EXPRESSWAY DIVISION
BRIDGE WIDENING

JEFFERSON AVE. BRIDGE X068
GT.W.R.R.
GENERAL PLAN OF STRUCTURE

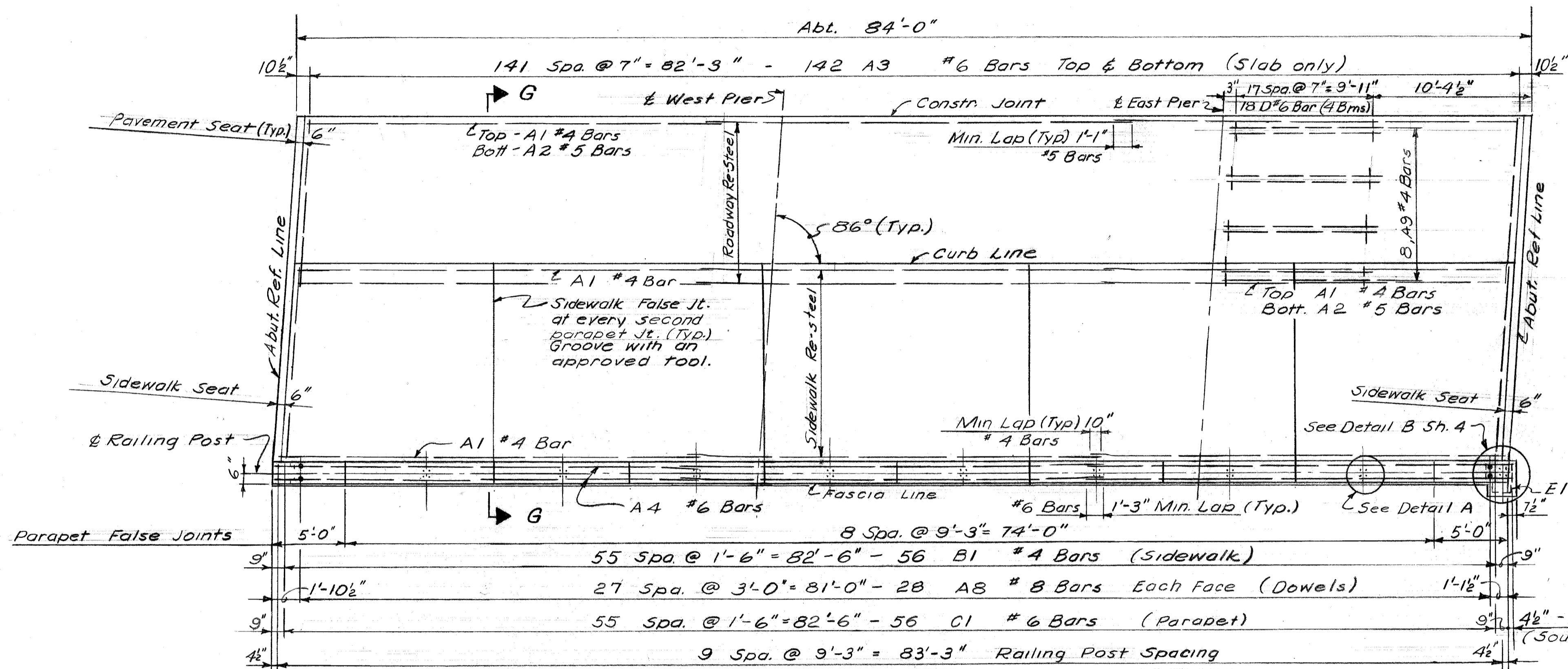
SHEET	2	OF	8	SHEETS
JOB No.	PW 5752			
DRWG No.	C-102			
DATE	OCT. 1966			



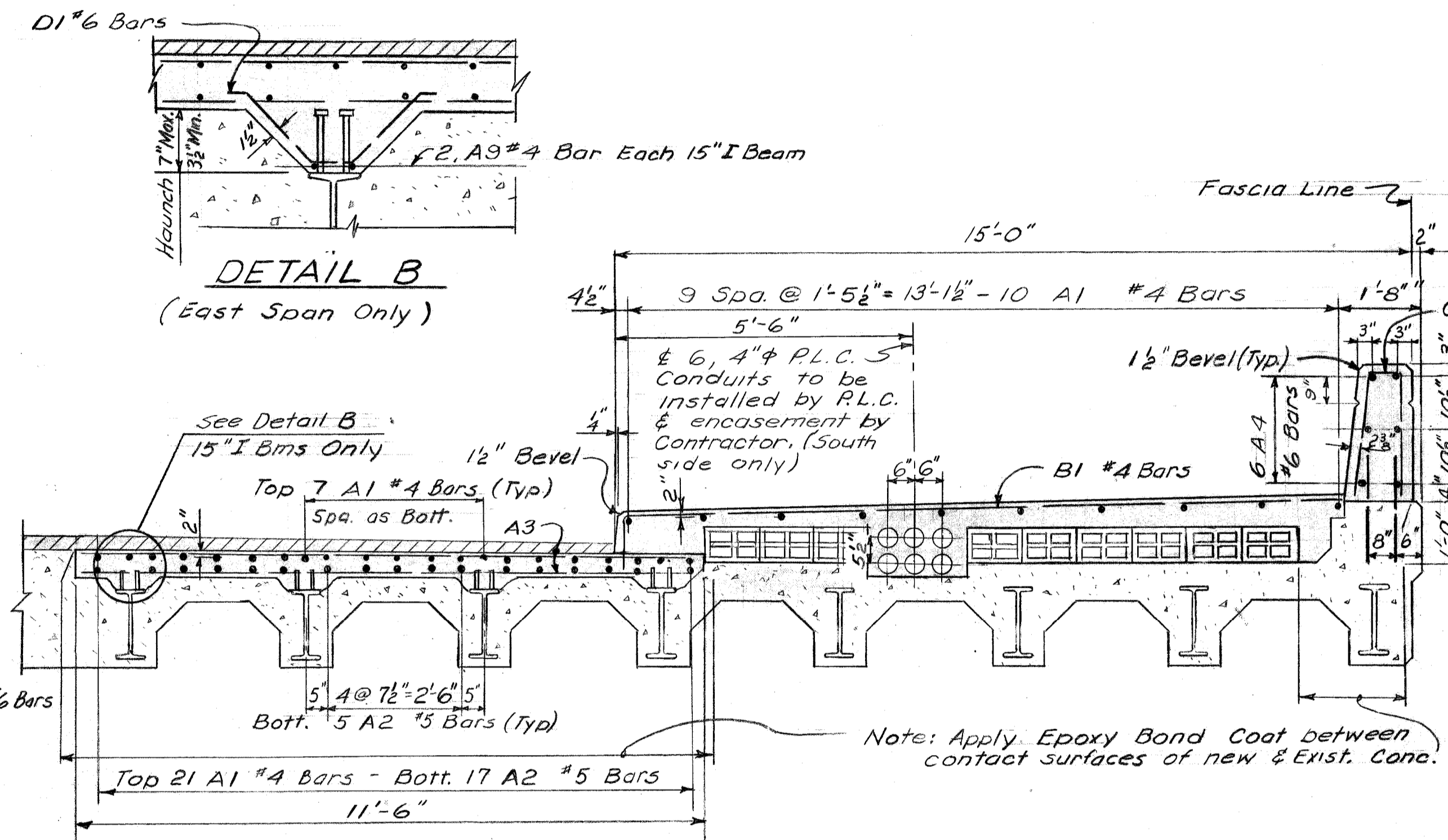
STUD SHEAR CONNECTORS



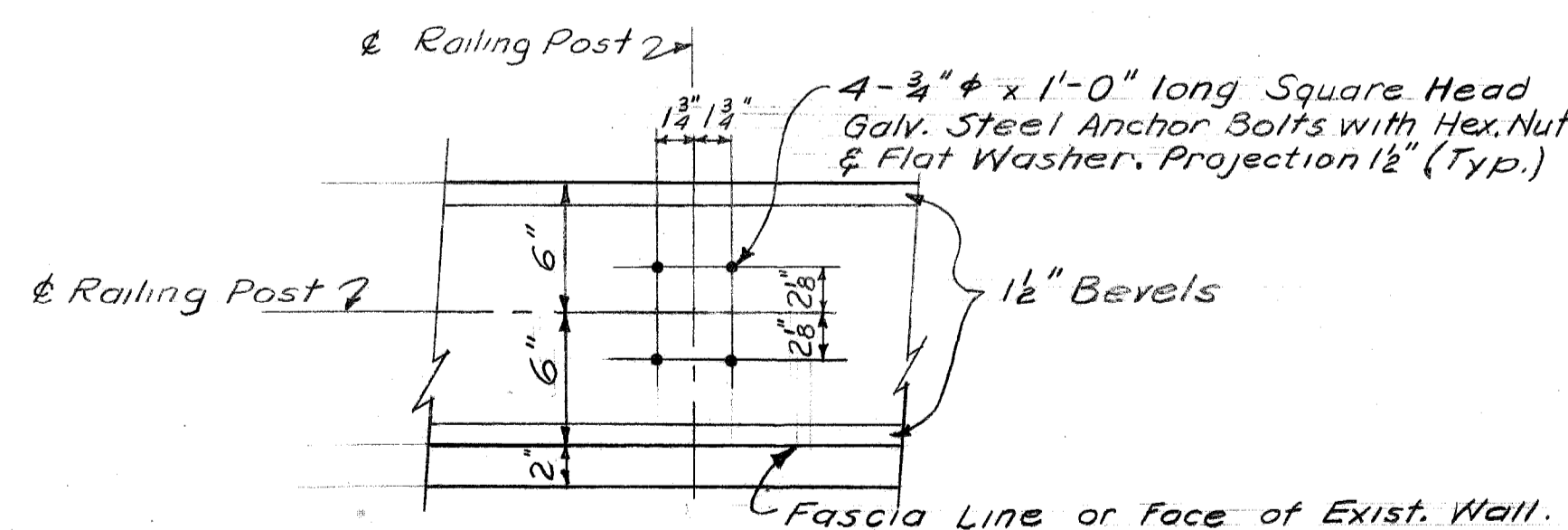
SECTION F-F



SUPERSTRUCTURE PLAN - SOUTH SIDE
(North Side Similar)

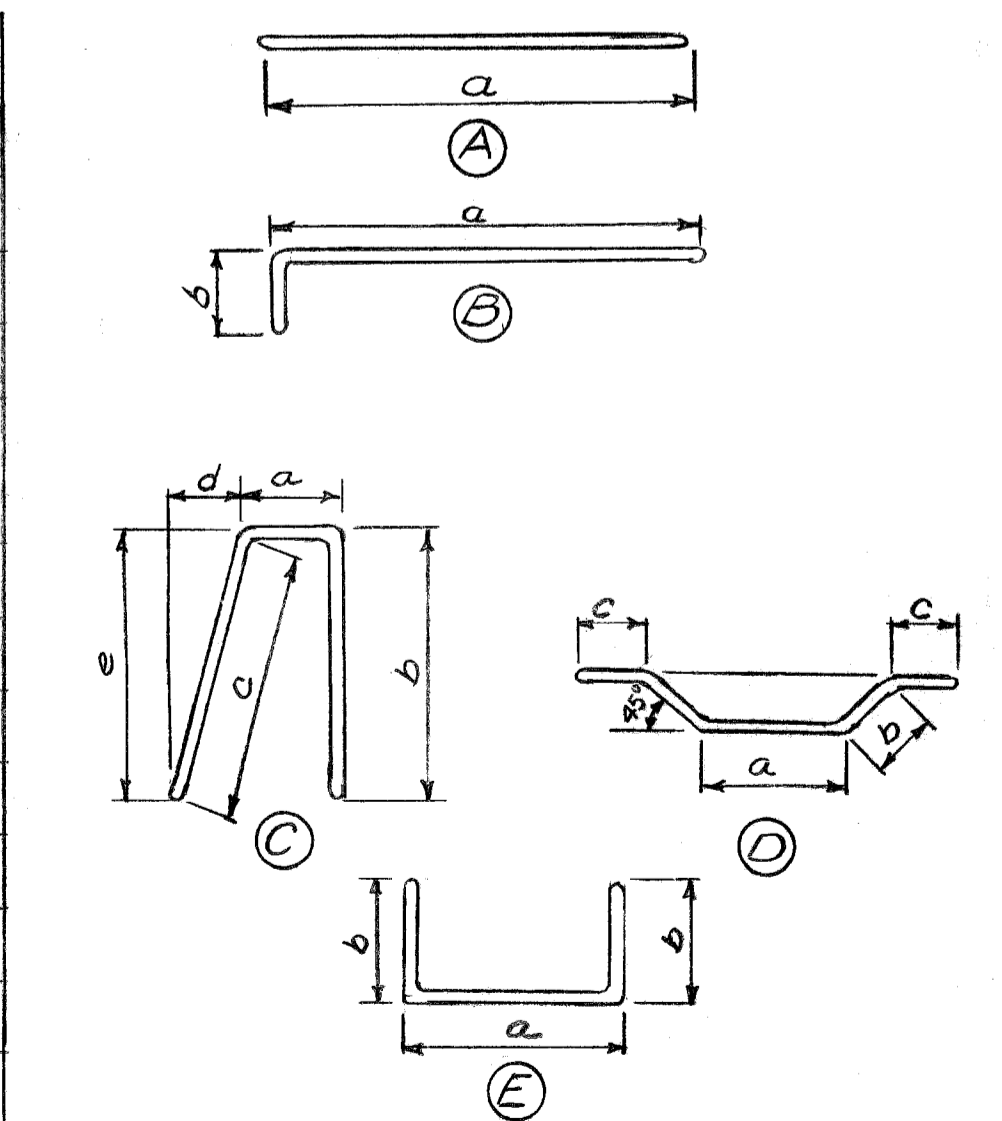


SECTION G-G



DETAIL A

STEEL REINFORCEMENT DETAILS										
Mark	a	b	c	d	e	Size	Length	No. Req'd	Total Wt.	
A1	28'-3"					#4	28'-3"	166	3,510	
A2	28'-9"					#5	28'-9"	102	3,059	
A3	11'-3"					#6	11'-3"	568	9,598	
A4	28'-9"					#6	28'-9"	36	1,555	
A5	26'-3"					#6	26'-3"	6	237	
A6	29'-3"					#6	29'-3"	6	264	
A7	27'-9"					#6	27'-9"	6	250	
A8	2'-0"					#8	2'-0"	170	908	
A9	12'-0"					#4	12'-0"	16	128	
B1	13'-3"	1'-0"				#4	14'-3"	112	1,066	
C1	8'-4"	2'-2 1/2"	2'-2 1/2"	3"	2'-2 1/2"	#6	5'-0"	170	1,277	
D1	5"	10"	2 1/2"			#6	2'-6"	144	541	
E1	1'-6"	1'-6"				#6	4'-6"	3	20	



Total Steel Reinforcement 22,413 Lbs.

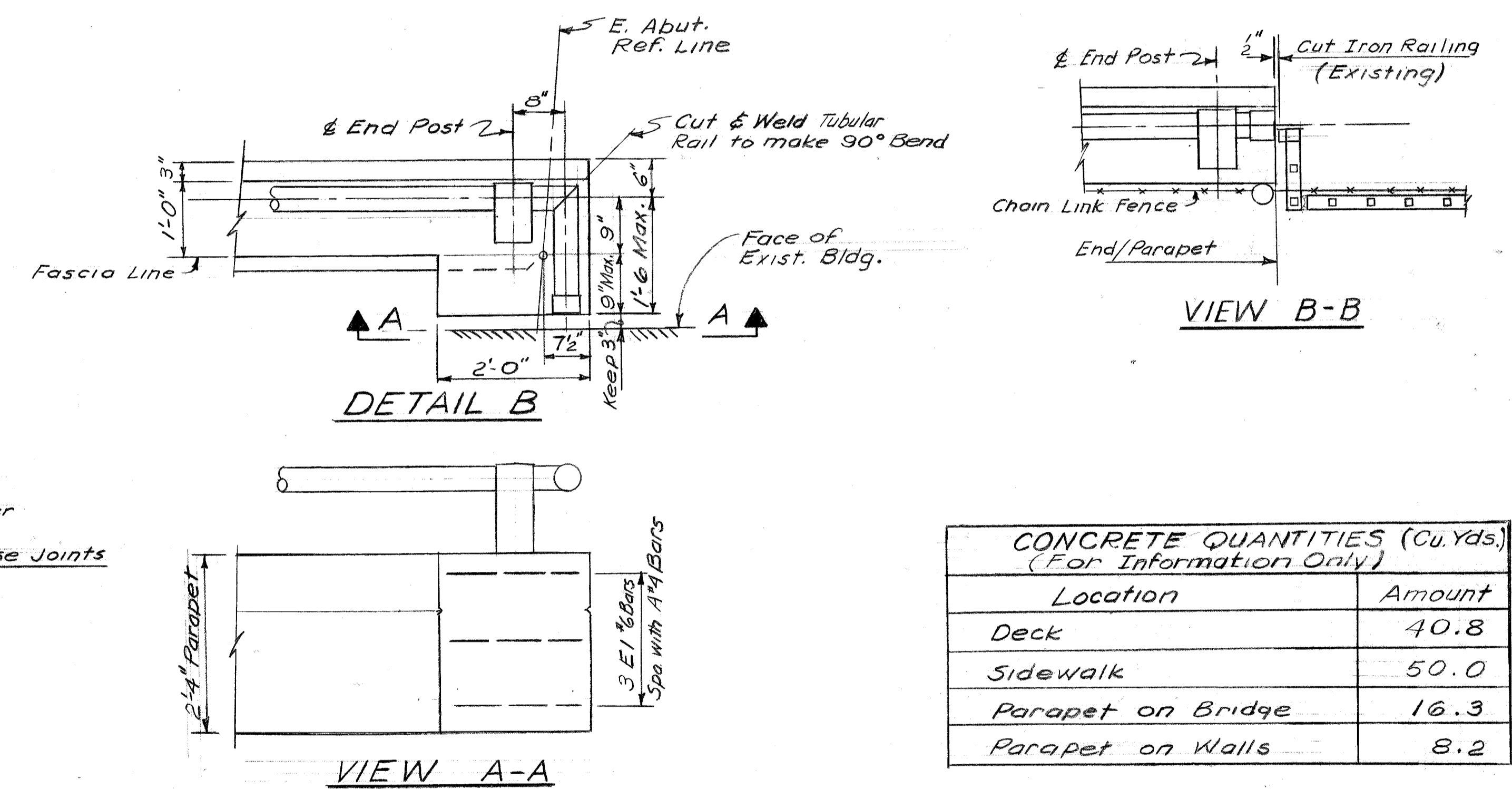
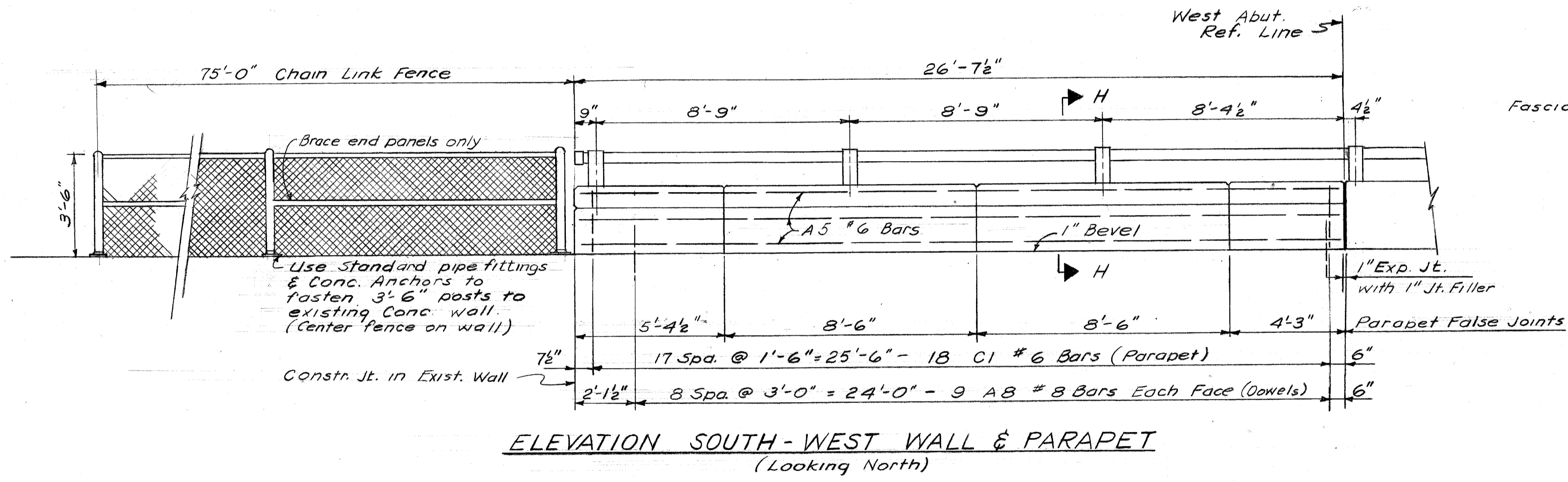
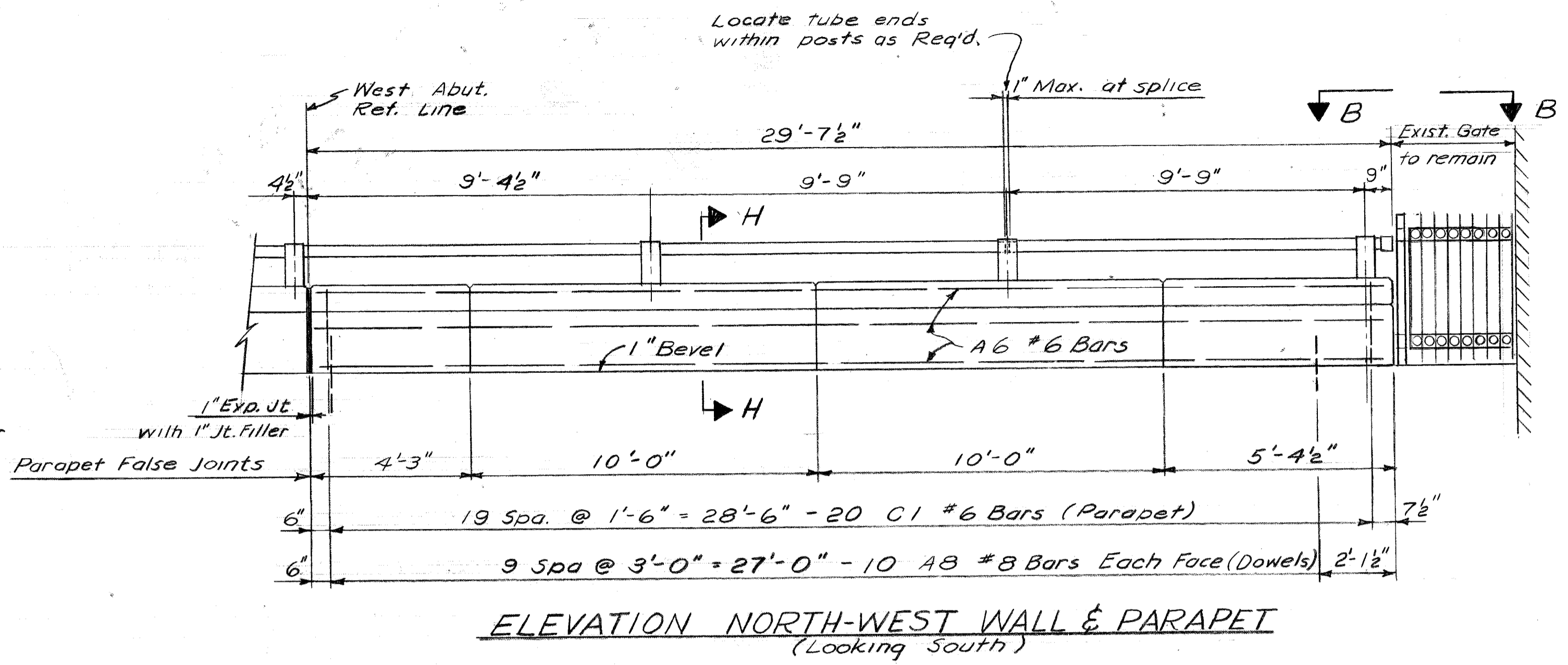
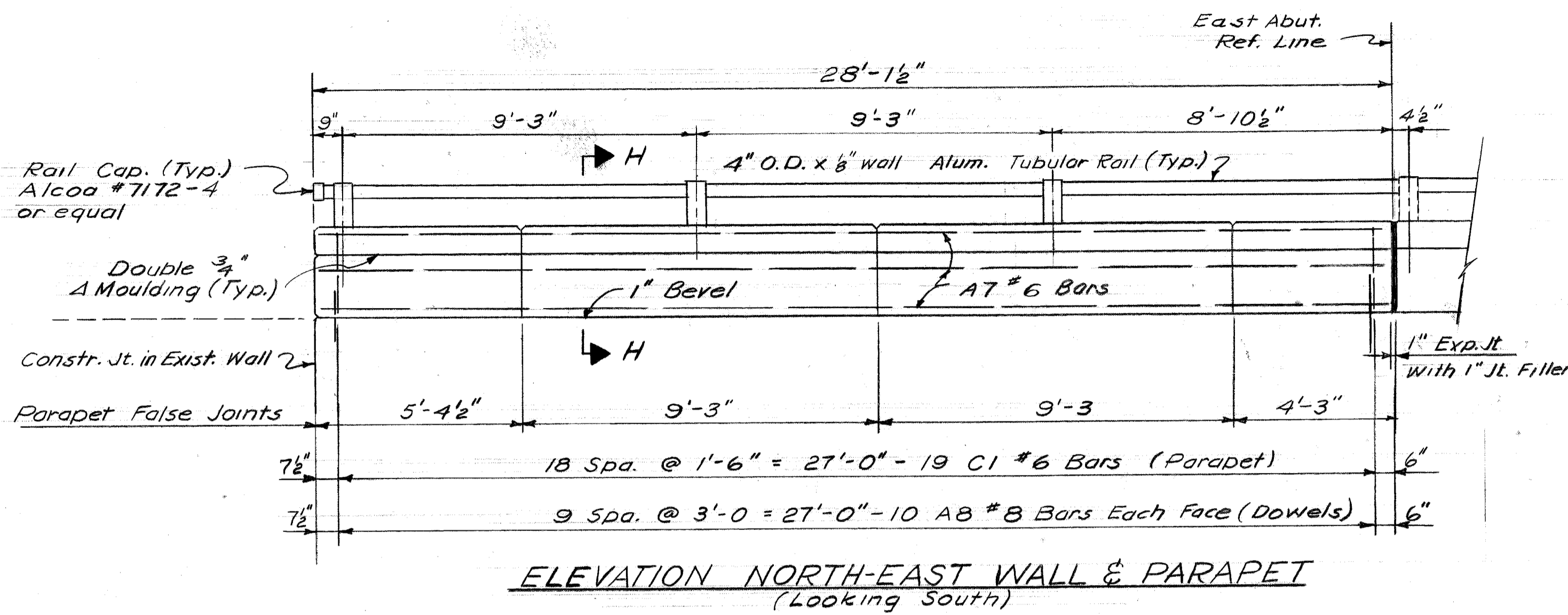
DESIGNED BY	Locher	APPROVED:	<i>C. P. Lidner</i> STRUCTURAL ENGINEER
DRAWN BY	Locher		<i>afred Bernarducci</i> ASSOCIATE CITY ENGINEER
TRACED BY	-		
CHECKED BY	STURM		CITY ENGINEER

CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
HIGHWAY & EXPRESSWAY DIVISION
BRIDGE WIDENING

JEFFERSON AVE BRIDGE X068
OVER
GT.W.R.R.
SUPERSTRUCTURE DETAILS

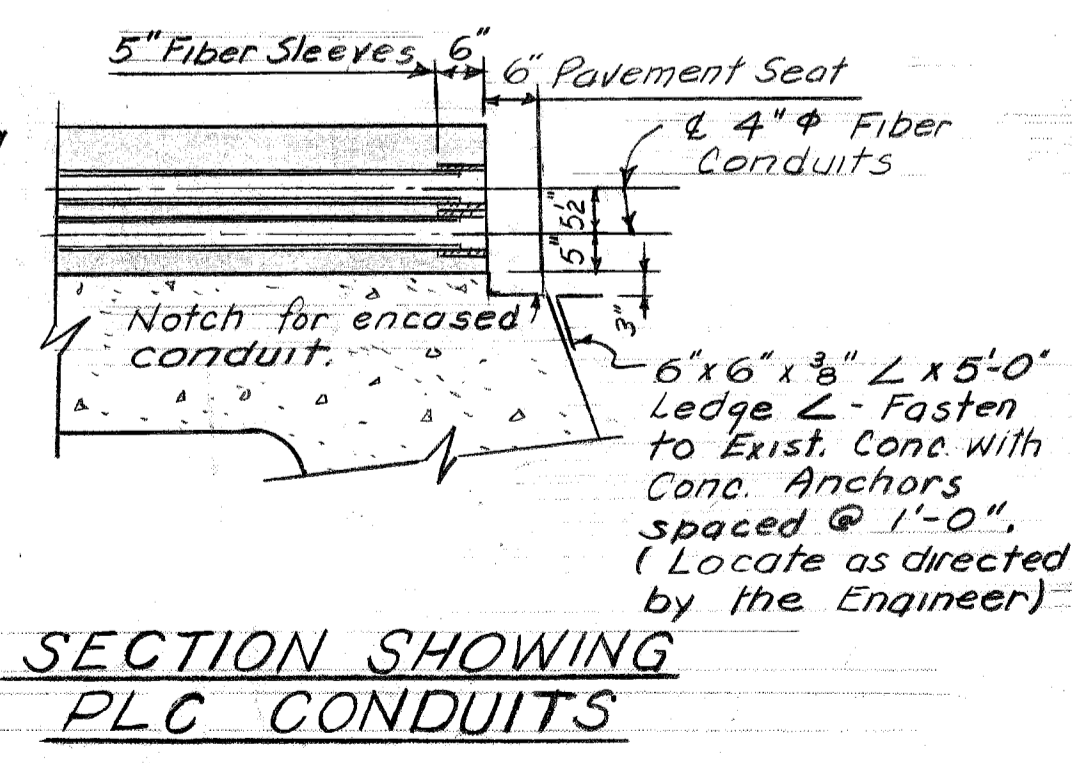
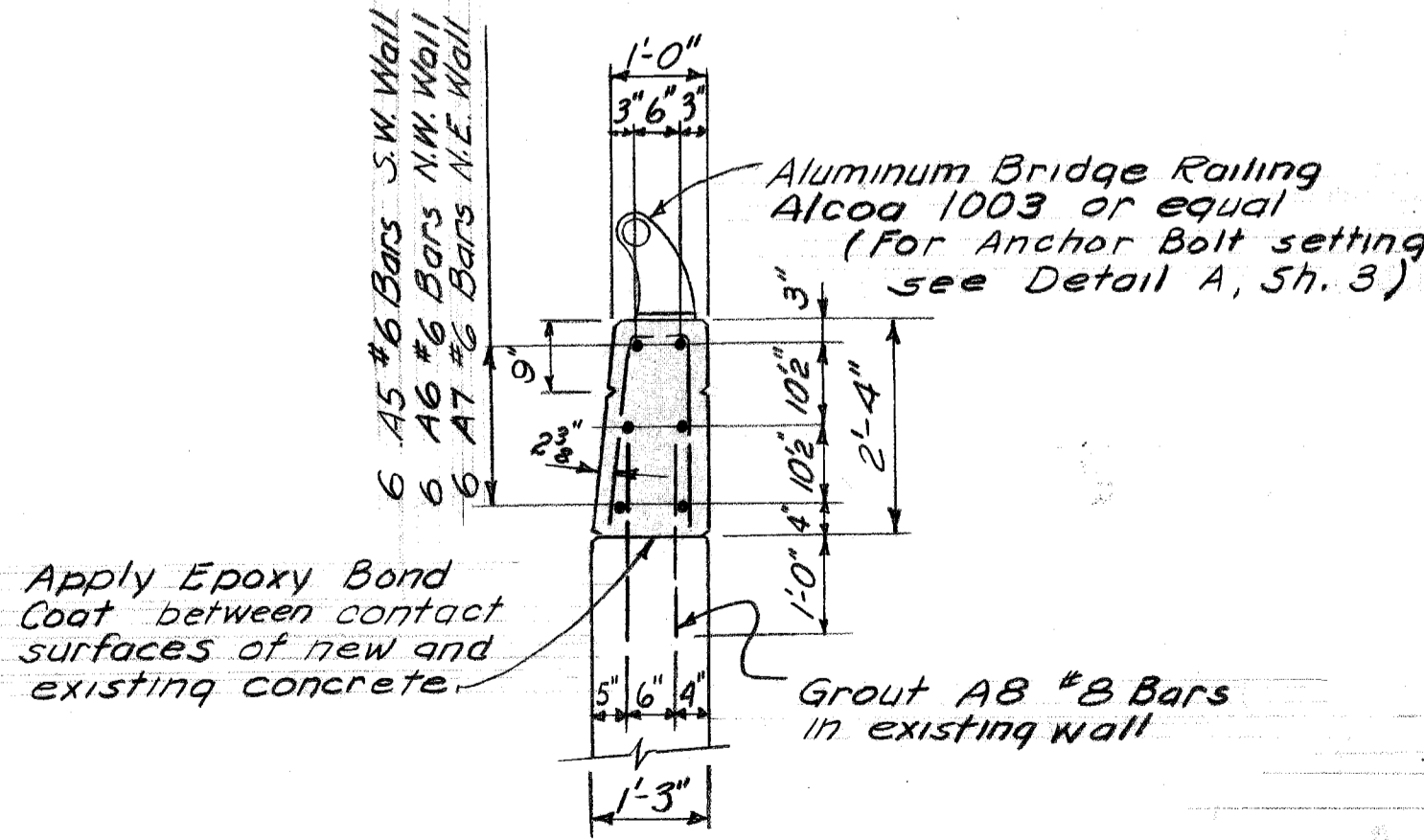
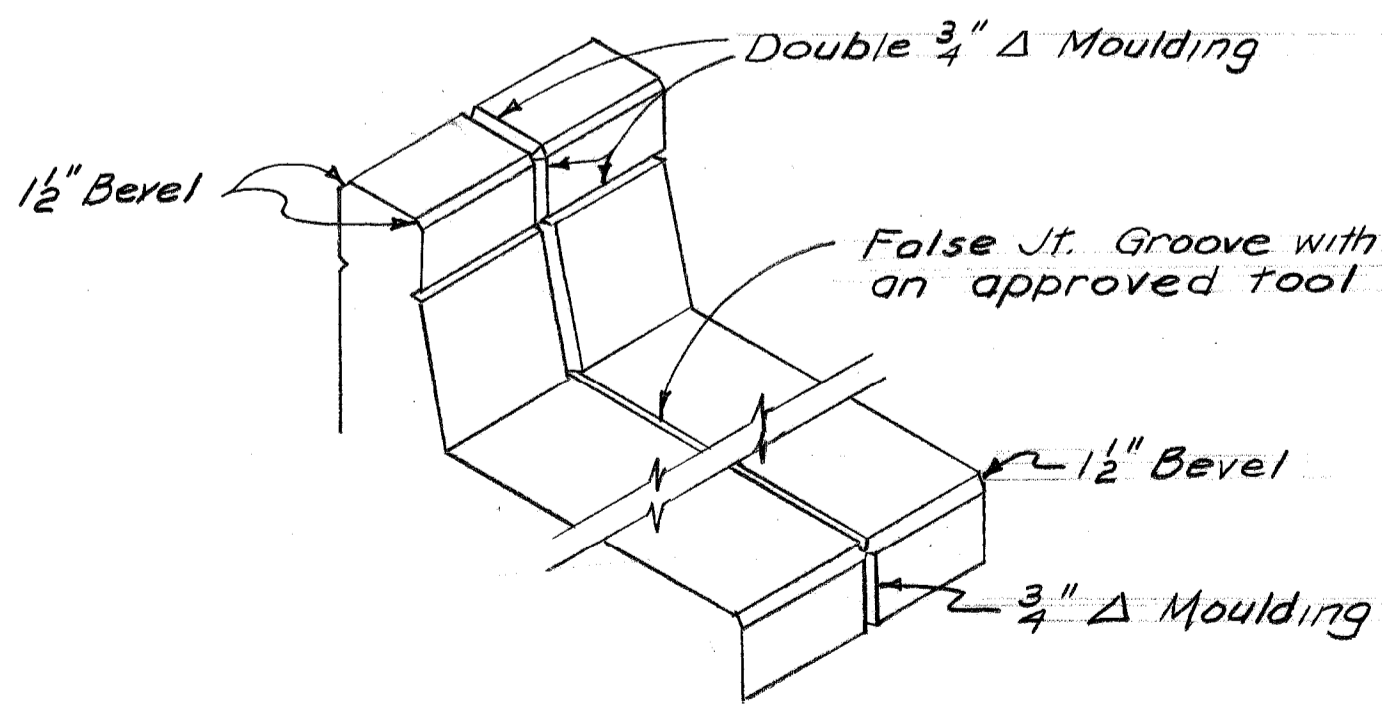
SHEET 3 OF 8 SHEETS
JOB No. PW 5752
DRWG No. C-103
DATE NOV 1966

X068



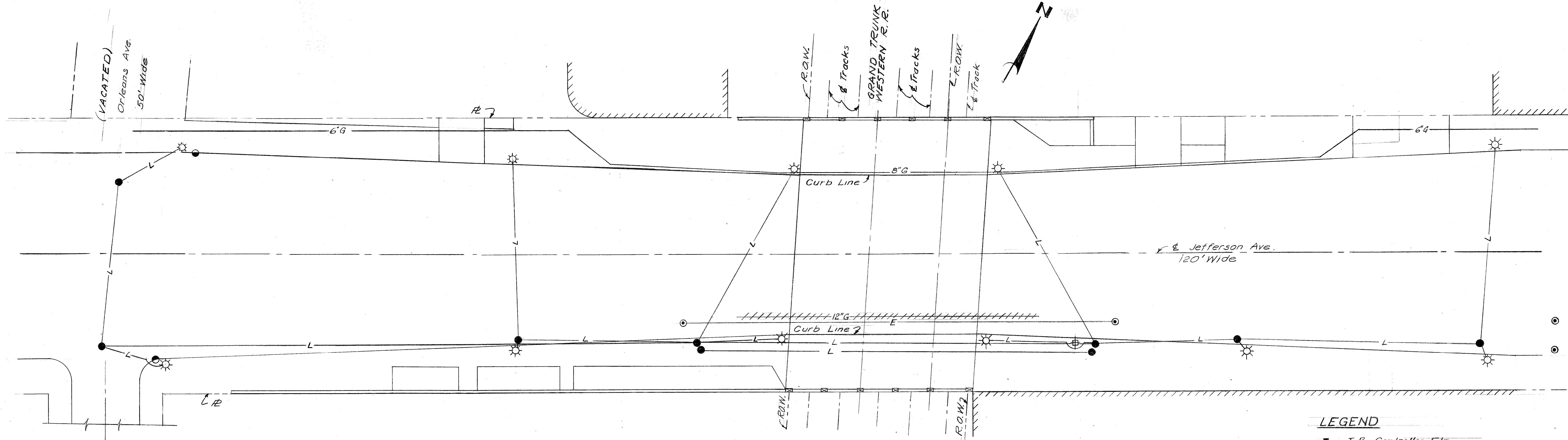
Location	Amount
Deck	40.8
Sidewalk	50.0
Parapet on Bridge	16.3
Parapet on Walls	8.2

Item	Amount	Unit
Stud Shear Connectors- $\frac{3}{4}$ " ϕ x 5"	2 016	Each
Stud Shear Connectors- $\frac{3}{4}$ " ϕ x 7"	640	Each
Non-metallic Waterstop	71	Sq. Ft.
Bridge Railing-Fabrication & Erection	253	Lin. Ft.
Bituminous Wearing Course	43	Tons
Epoxy Bond Coat	50	Gals
Chain Link Fence	75	Lin. Ft.
8" x 12" x 12" Structural Tile	1640	Each



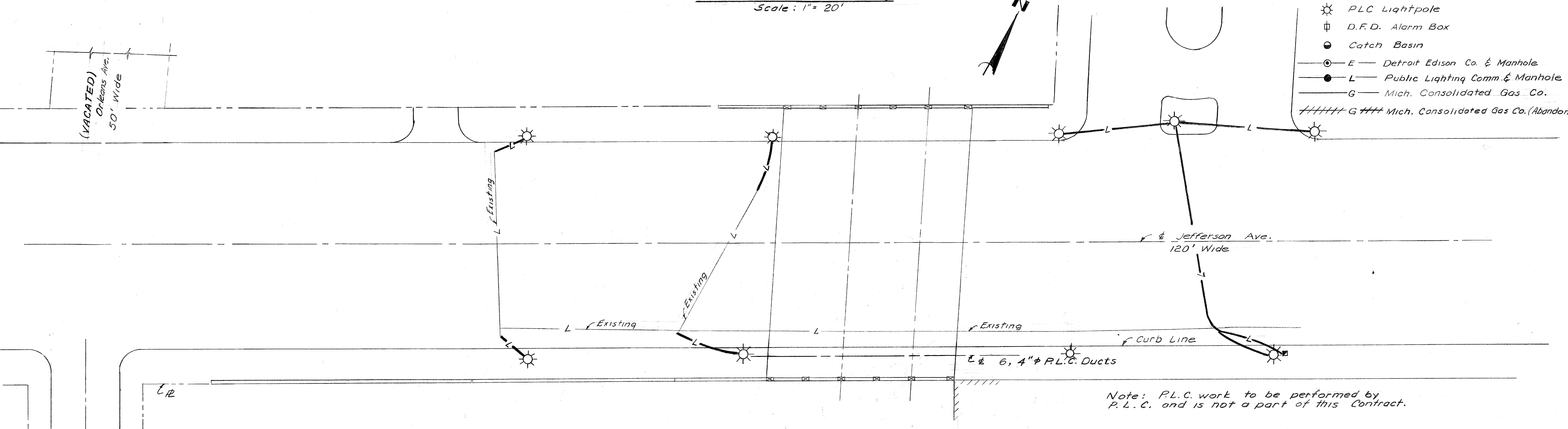
<p>REVISIONS LOCATED BY COORDINATES ON SHEET</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>COORD</th> <th>DESCRIPTION</th> <th>BY</th> <th>CHKD</th> <th>APVD</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	COORD	DESCRIPTION	BY	CHKD	APVD	DATE							<p>REFERENCE DRAWINGS</p> <p>DESIGNED BY Locher</p> <p>DRAWN BY Locher</p> <p>TRACED BY</p> <p>CHECKED BY STURM</p>	<p>APPROVED</p> <p>C. C. Sideman STRUCTURAL ENGINEER</p> <p>afred Bernarducci ASSOCIATE CITY ENGINEER</p> <p>CITY ENGINEER</p>	<p>CITY OF DETROIT</p> <p>DEPARTMENT OF PUBLIC WORKS</p> <p>HIGHWAY & EXPRESSWAY DIVISION</p> <p>BRIDGE WIDENING</p>	<p>JEFFERSON AVE. BRIDGE 1068</p> <p>OVER</p> <p>GTWPP</p> <p>MISCELLANEOUS DETAILS</p>	<p>SHEET 4 OF 8 SHEETS</p> <p>JOB No. PW 5752</p> <p>DRWG No. C-104</p> <p>DATE NOV. 1966</p>
COORD	DESCRIPTION	BY	CHKD	APVD	DATE												

X068



UTILITY PLAN (Existing)
Scale: 1" = 20'

- LEGEND**
- T.B. Controller Fdn.
 - ☼ PLC Lightpole
 - ⊕ D.F.D. Alarm Box
 - Catch Basin
 - ⊙ E - Detroit Edison Co. & Manhole
 - L - Public Lighting Comm. & Manhole
 - G - Mich. Consolidated Gas Co.
 - ////// G //// Mich. Consolidated Gas Co. (Abandon)



UTILITY PLAN (Proposed Locations)
Scale: 1" = 20'

Note: P.L.C. work to be performed by P.L.C. and is not a part of this Contract.

COORD.	DESCRIPTION	DEM.	CHG.	APPROV.	DATE

REVISIONS LOCATED BY COORDINATES ON SHEET

DESIGNED BY	Locher
DRAWN BY	Locher
TRACED BY	-
CHECKED BY	STURM

APPROVED:
R. L. Adams
STRUCTURAL ENGINEER
Alfred Bonarducci
ASSOCIATE CITY ENGINEER
CITY ENGINEER

CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
HIGHWAY & EXPRESSWAY DIVISION
BRIDGE WIDENING

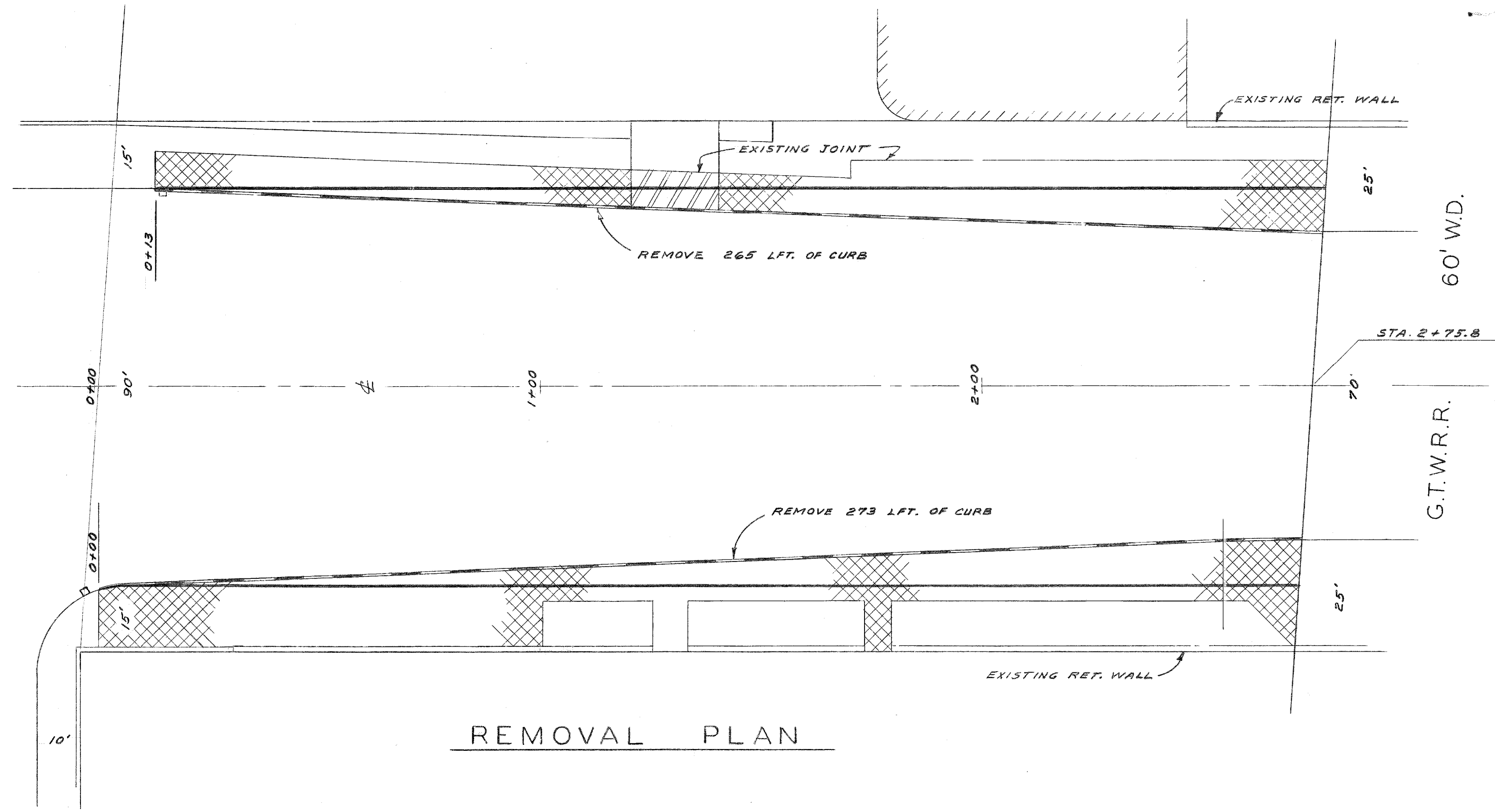
JEFFERSON AVE. BRIDGE X068
OVER
G.T.W.R.R.
EXISTING UTILITIES AND PROPOSED ALTERATIONS

SHEET 5 OF 8 SHEETS
JOB No. PW 5752
DRWG No. C-105
DATE OCT. 1966

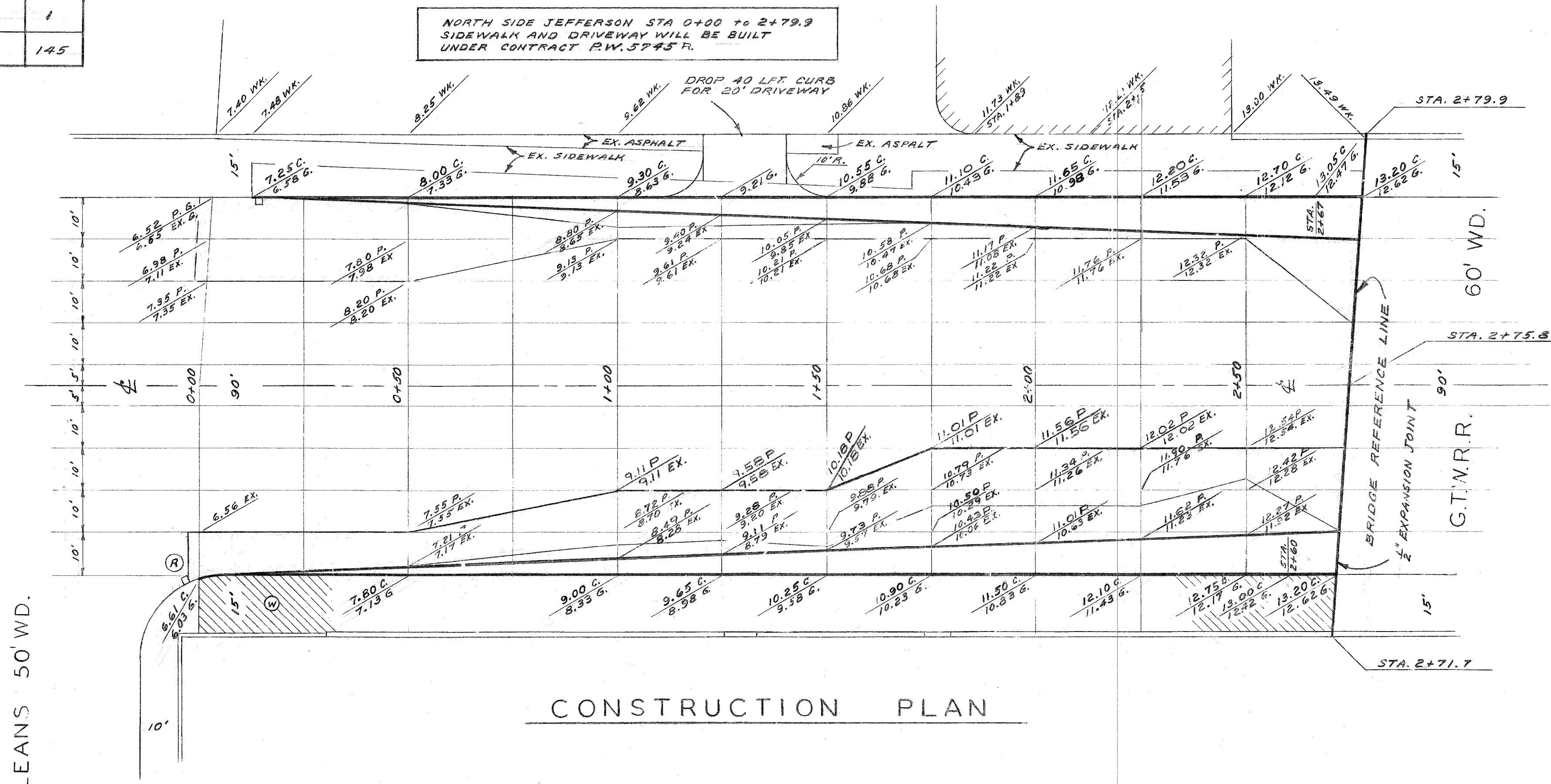
FOR INFORMATION ONLY

NO.	DESCRIPTION OF ITEM	UNIT	QUANTITIES		
			SHEET # 6	SHEET # 7	TOTAL
1	EXCAVATION	CYD.	175	134	309
2	SIDEWALK REMOVAL	SFT.	6081	6238	12319
3	DRIVEWAY REMOVAL	SFT.	156	1560	1716
4	FILL (GRADE A)	CYD.	35	10	45
5	CURB REMOVAL	LFT.	538	462	1000
6	PAV'T. - 10" UNIF. - NO CURB	SYD.	300	252	552
7	PAV'T. - 10" UNIFORM WITH INT. CURB	SYD.	16	16	32
8	SEPARATE CURB	LFT.	404	258	662
9	TEST CORES	EA.	2	2	4
10	STRIPPING ASPHALT SURFACE	SYD.	638	764	1402
11	SIDEWALK - 4" STANDARD	SFT.	3959	4339	8298
12	DRIVEWAY - 8" STANDARD	SFT.		566	566
13	BOND COAT	GAL.	160	193	353
14	RESURFACING MIXTURES IN PLACE (ALL NATURAL AGGREGATES)				
	a). FINE BINDER COURSE	TON	39	44	83
	b). WEARING COURSE - 31 A	TON	77	102	179
15	RESURFACING MIXTURES IN PLACE (ALL SLAG AGGREGATES)				
	a). FINE BINDER COURSE	TON	36	40	76
	b). WEARING COURSE - 31 A	TON	73	96	169
16	CATCHBASIN - RESETTING	EA.	1		1
17	* COLD PATCHING	SYD	145		145

* SEE NOTE NO. 4



REMOVAL PLAN

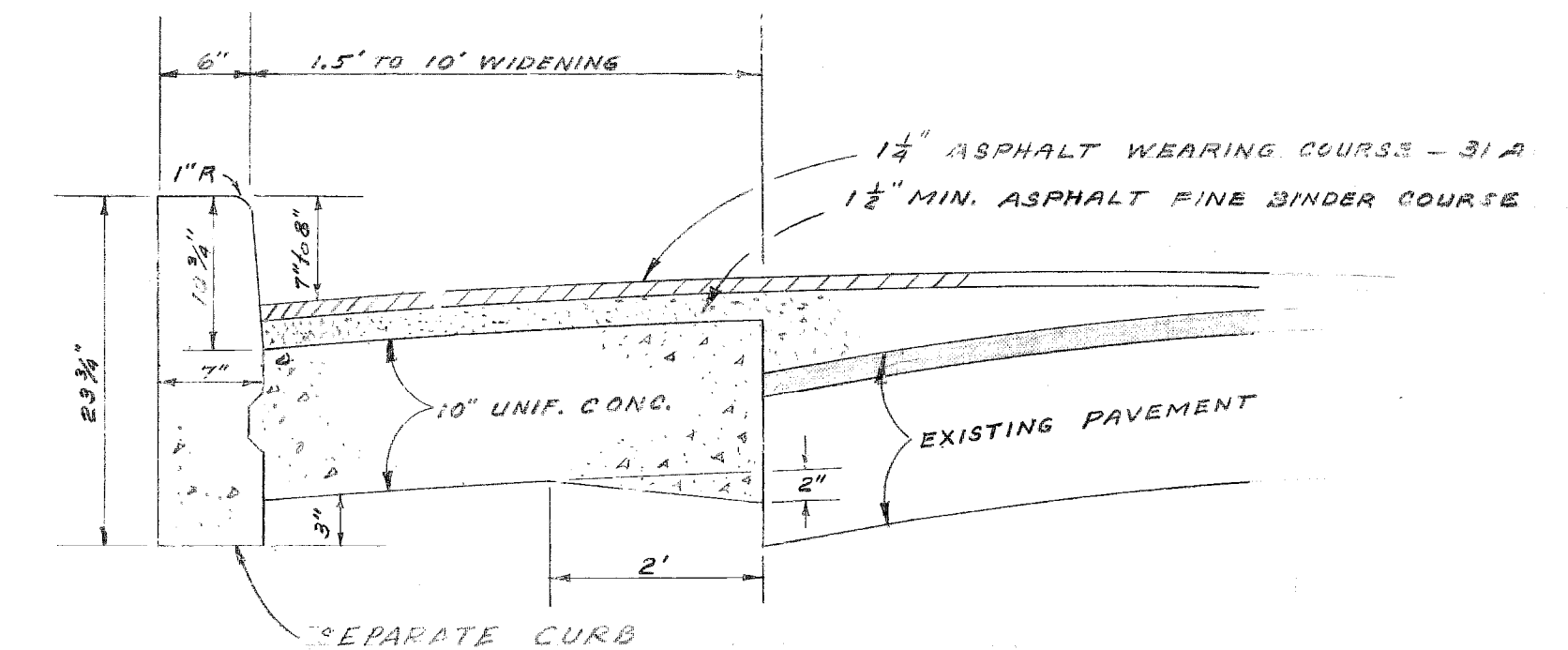
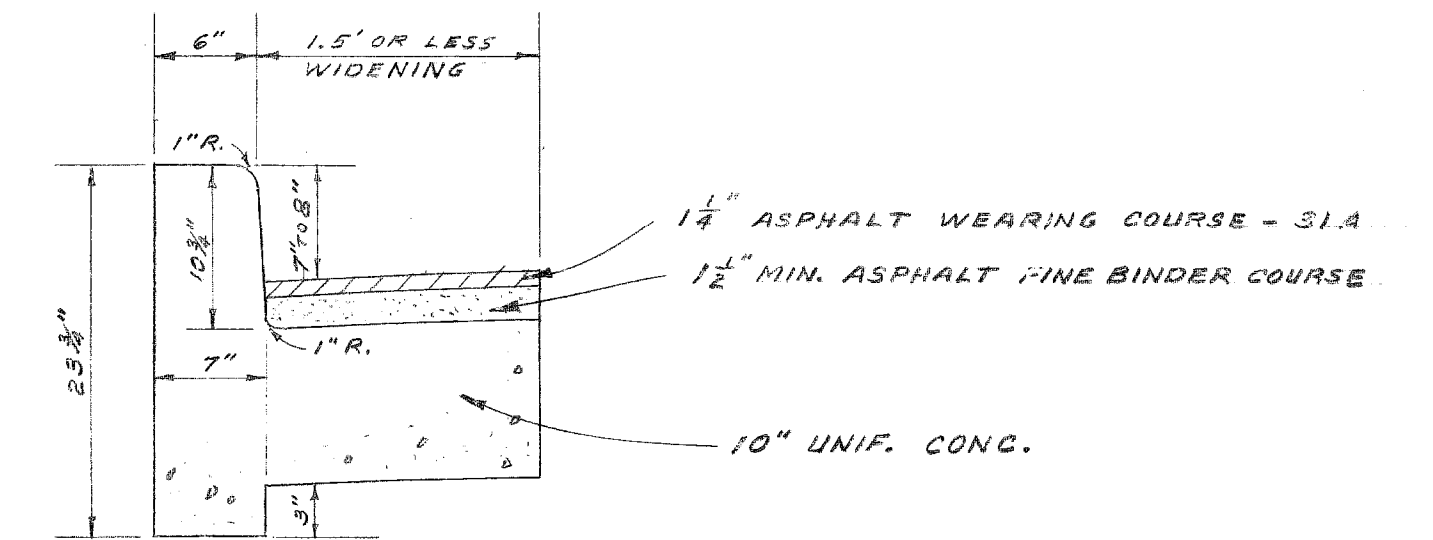


CONSTRUCTION PLAN

ORLEANS 50' WD.

BENCH MARKS	ELEV.
P. B. M. # 38 - 253 JEFFERSON & N.S. E. G.T.R.R.	123.552
C. B. M. # HYD. S.W. COR. LARNED & ST. AUBIN	120.66
C. B. M. # R.R. SPIKE IN D.E. POLE, S.S. LARNED E. OF G.T.R.R.	119.06

- NOTES:
- ADD 110.00 TO PLAN ELEVATIONS.
 - CONTRACTION JOINTS SHALL BE SPACED 15' C.C. AND 20' C.C. FOR SLAG AND NATURAL AGGREGATES RESPECTIVELY
 - FOR LEGEND SEE SHEET NO. 7 OF 7.
 - FIELD ENGINEER WILL DETERMINE IF COLD PATCHING IS REQUIRED FOR TEMPORARY WALK & DRIVEWAY REPLACEMENT ON NORTH SIDE OF JEFFERSON IF P.W. 5752 AND P.W. 5745 R ARE NOT CONCURRENT.



TYPICAL SECTIONS
PAVEMENT WIDENING

NO SCALE

SCALE 1" = 20' FIELD NOTES LL38L (3) A.O. 1768

NO.	DESCRIPTION	DATE

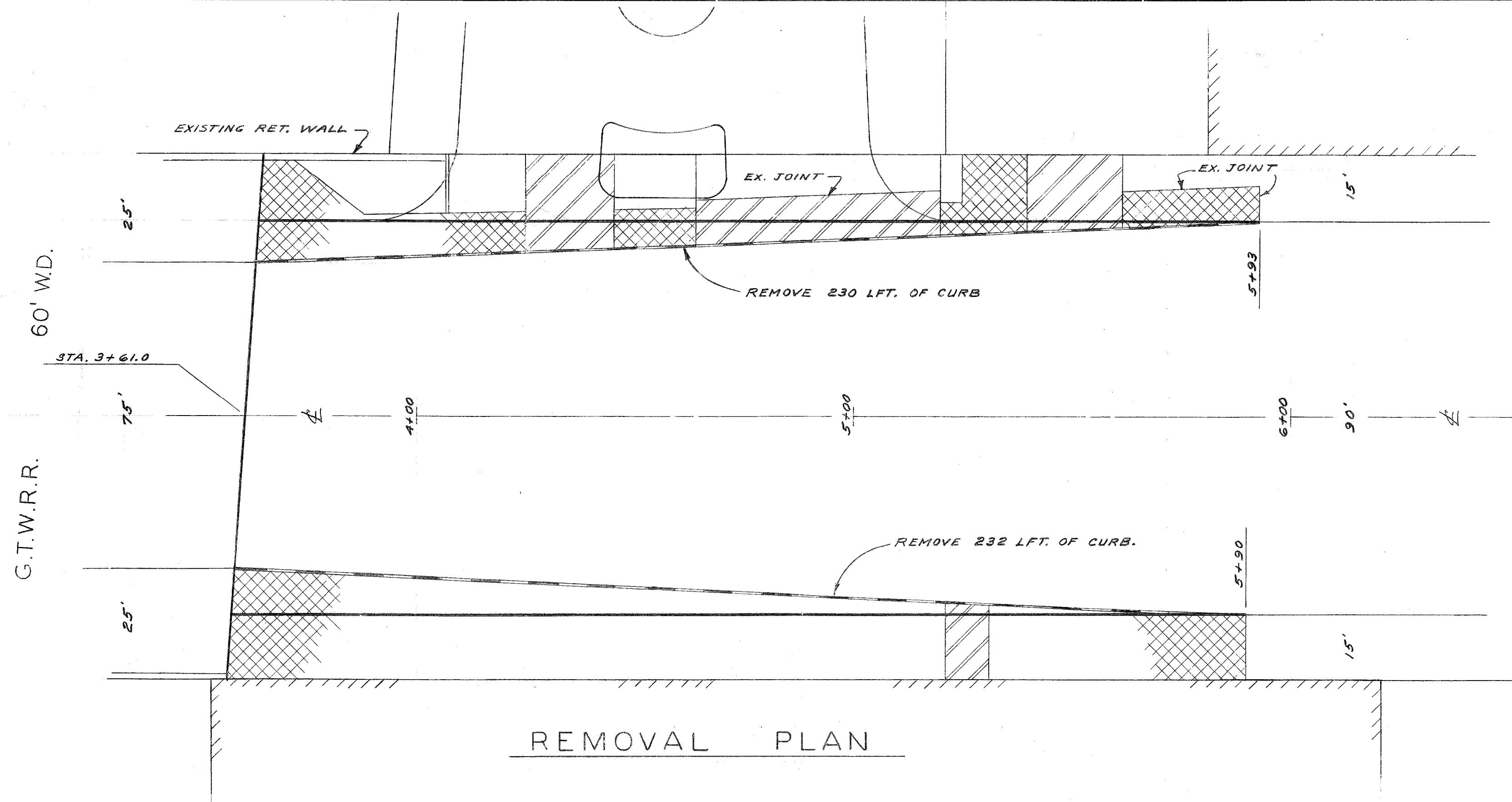
DESIGNED BY	W. L. T.	APPROVED:	<i>John Erickson</i> ENGINEER OF STREETS
DRAWN BY	F. A. WAGNER		<i>afred. Bernarducci</i> ASSOCIATE CITY ENGINEER
CHECKED BY	W. L. T. H. KAMMIS		CITY ENGINEER

CITY OF DETROIT
 DEPARTMENT OF PUBLIC WORKS
 HIGHWAY & EXPRESSWAY DIVISION
 BRIDGE WIDENING

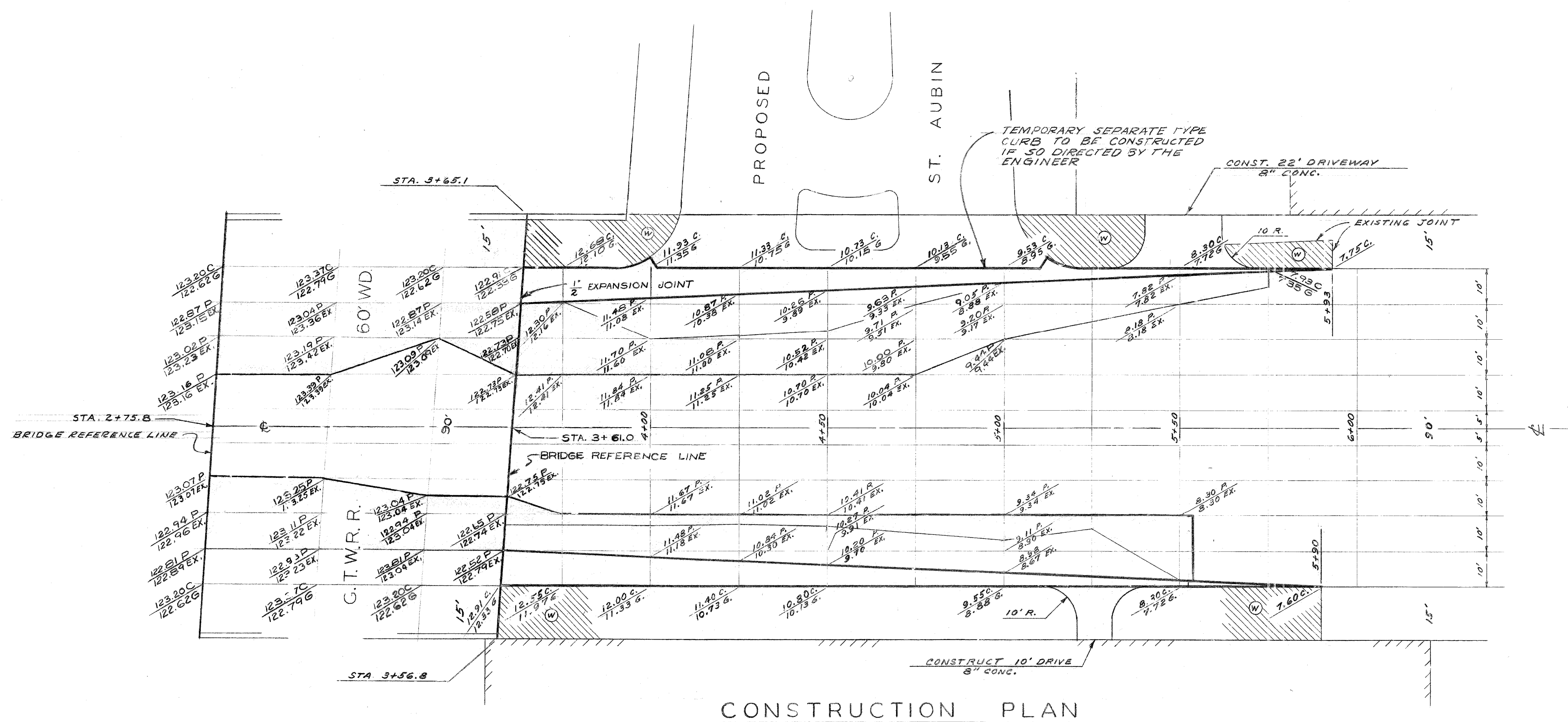
JEFFERSON AVE. BRIDGE X068
 OVER
 G.T.W.R.R.
 WIDENING BRIDGE APPROACHES

SHEET 6 OF 8 SHEETS
JOB No. PW 5752
DRWG No. C-4973
DATE 11-25-66

DRAWER 15 X068



LEGEND	
	WALK REMOVAL
	DRIVE REMOVAL
	CURB REMOVAL
	STRIPPING ASPHALT SURFACE
	CONST. 4" STD. SIDEWALK
	RESETTING CATCH BASIN
	CURB
	GUTTER
	PROPOSED
	EXISTING



SCALE 1" = 20'

A.O. 1768

DESIGNED BY <i>W.L.T.</i>	APPROVED: <i>John Erickson</i> ENGINEER OF STREETS
DRAWN BY <i>F. A. WAGNER</i>	<i>Alfred Bernarducci</i> ASSOCIATE CITY ENGINEER
TRACED BY	
CHECKED BY <i>W.L.T. J. Kawles</i>	CITY ENGINEER

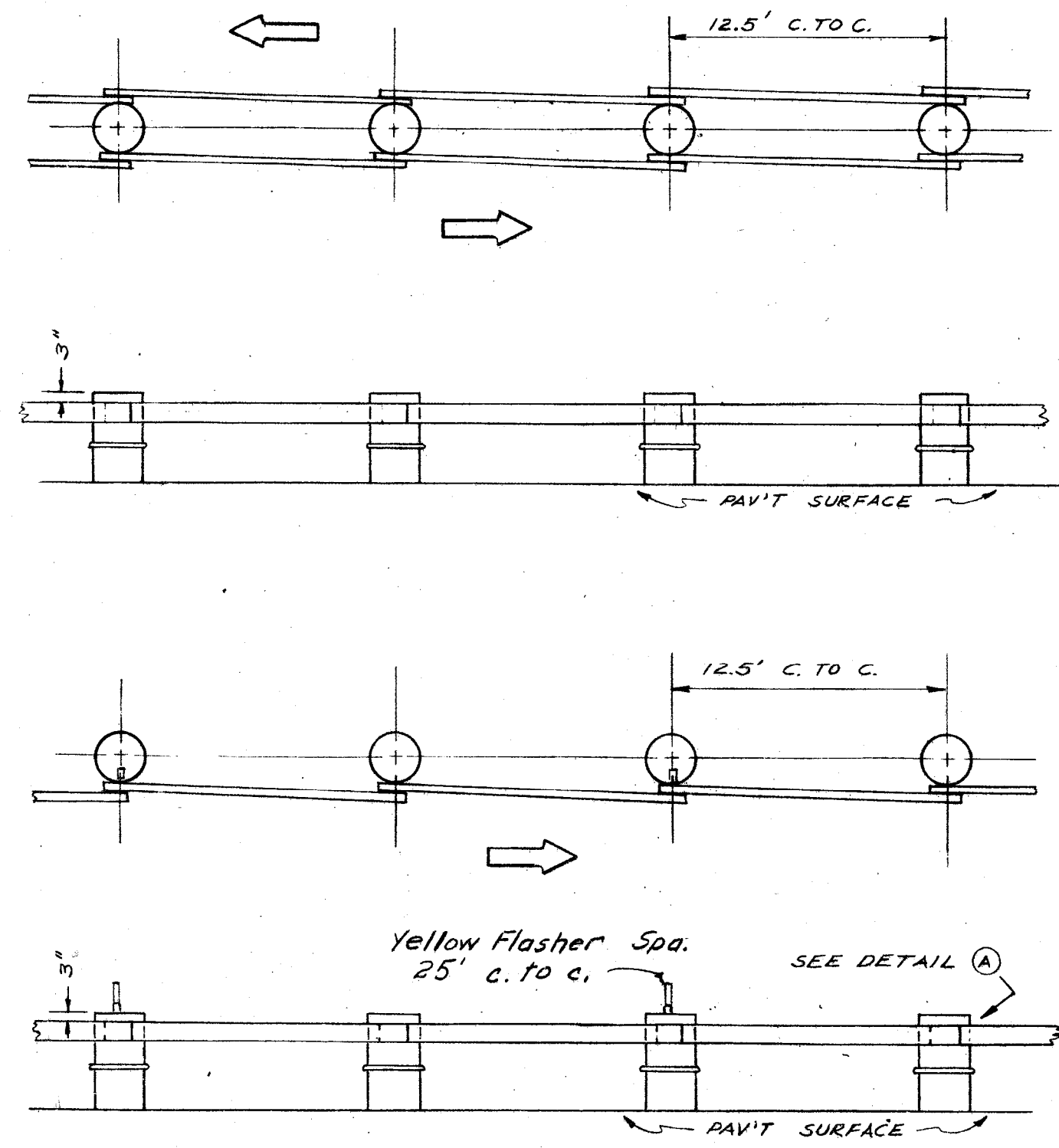
CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
HIGHWAY & EXPRESSWAY DIVISION
BRIDGE WIDENING

JEFFERSON AVE. BRIDGE X068
OVER
G.T.W.R.R.

WIDENING BRIDGE APPROACHES

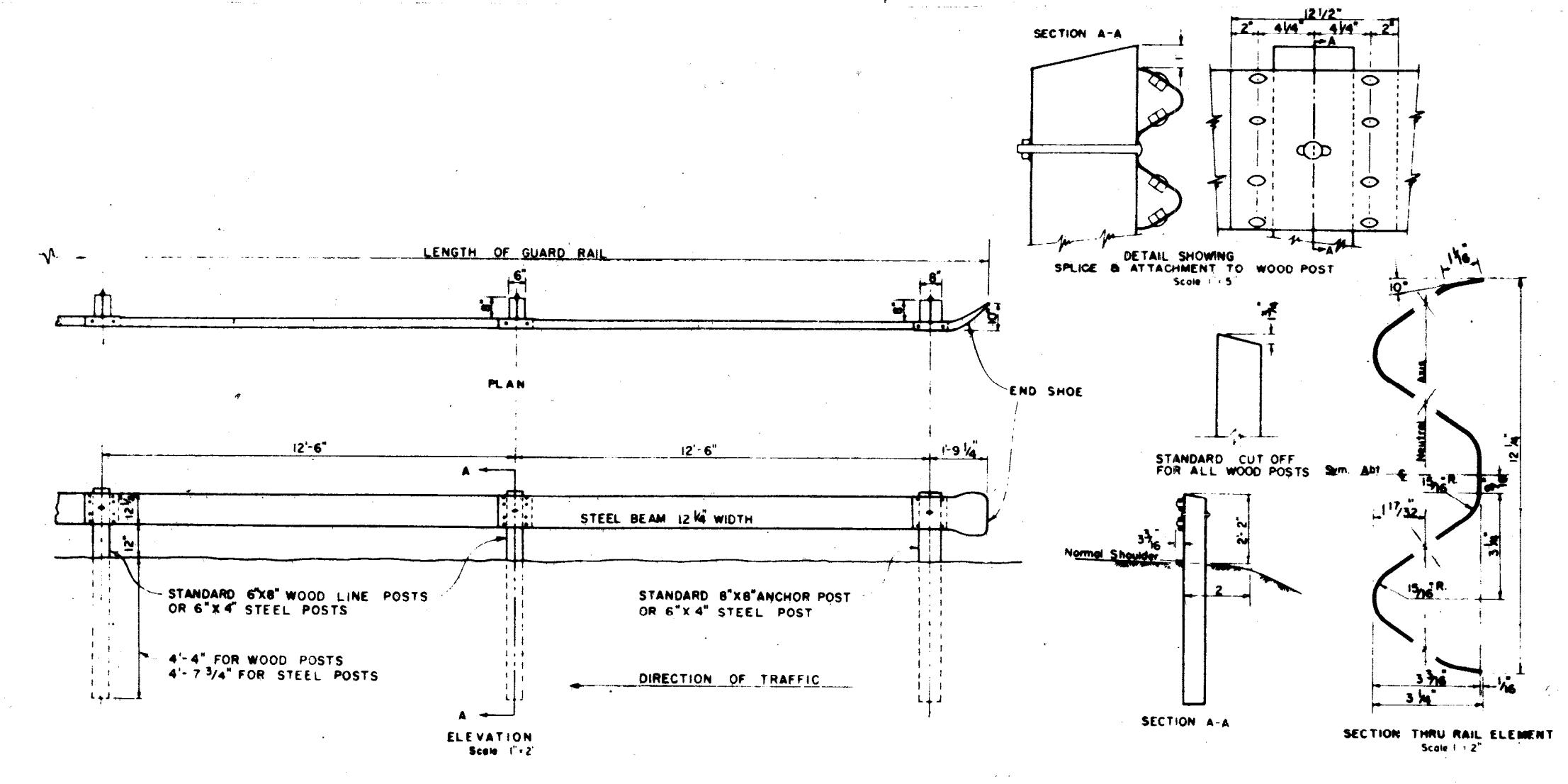
SHEET <u>7</u> OF <u>8</u> SHEETS
JOB No. PW 5752
DRWG No. C-4973
DATE 11-25-66

X068

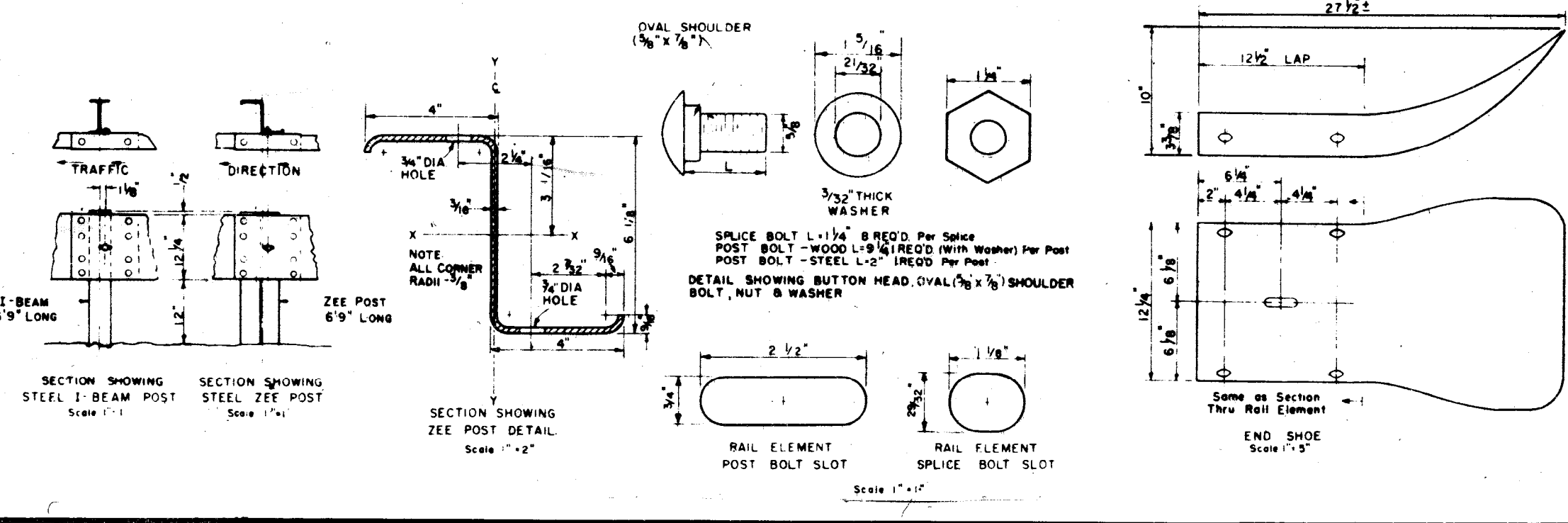


NOTES
 BEAM SUPPORTS SHALL BE 55 GALLON SALVAGED BARRELS PAINTED HIGHWAY YELLOW (NON-REFLECTORIZED) AND PROVIDED WITH DRAIN HOLES.
 FACE OF GUARD RAIL SHALL BE PARTIALLY REFLECTORIZED WITH WHITE OR SILVER BEADED SHEET MATERIAL COVERING 25% OF SURFACE AREA PLACED IN THE FORM OF HORIZONTAL (1 1/2\"/>

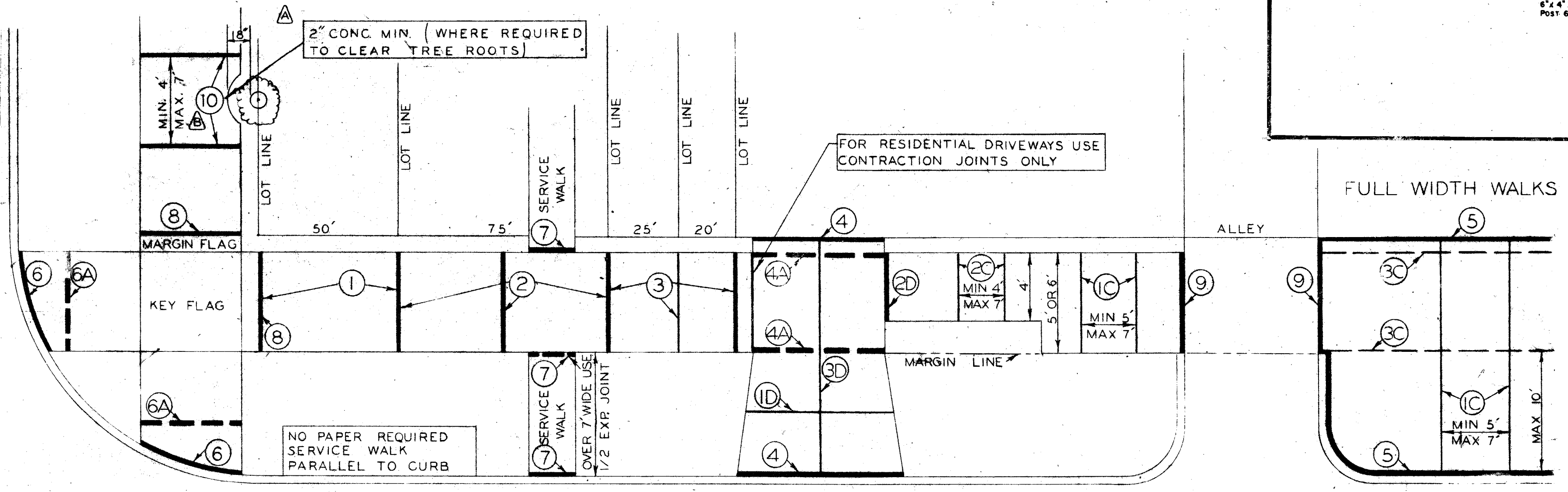
DRG. NO. C-4729
SINGLE AND DOUBLE BEAM BARREL BARRICADE



NOTES
 All wood posts shall conform to dimensions shown and shall be of Douglas Fir, Long Leaf Pine, Short Leaf Pine, White Oak, Red Oak, Beech, White Ash, Western Hemlock, Sugar Maple or other approved wood. Steel posts of length shown may be substituted.
 Rail Elements shall be tapered in the direction of traffic.
 All brackets, fittings and bolts shall be in accordance with the Specifications. Bolts shall be cut off not to exceed 1/2\"/>



DRG. NO. C-4585
STEEL BEAM GUARD RAIL



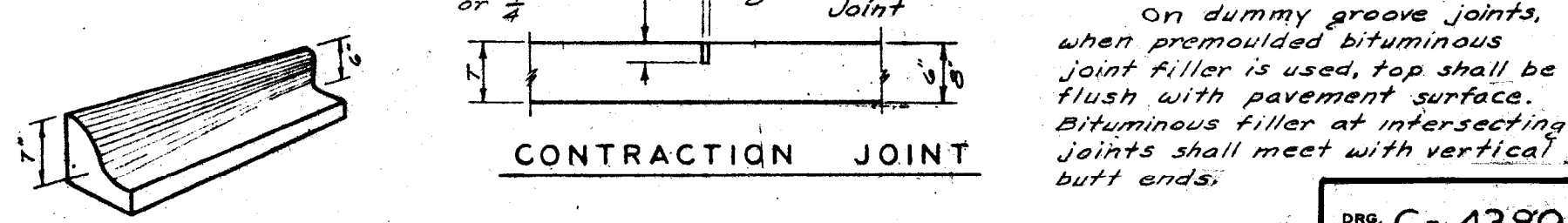
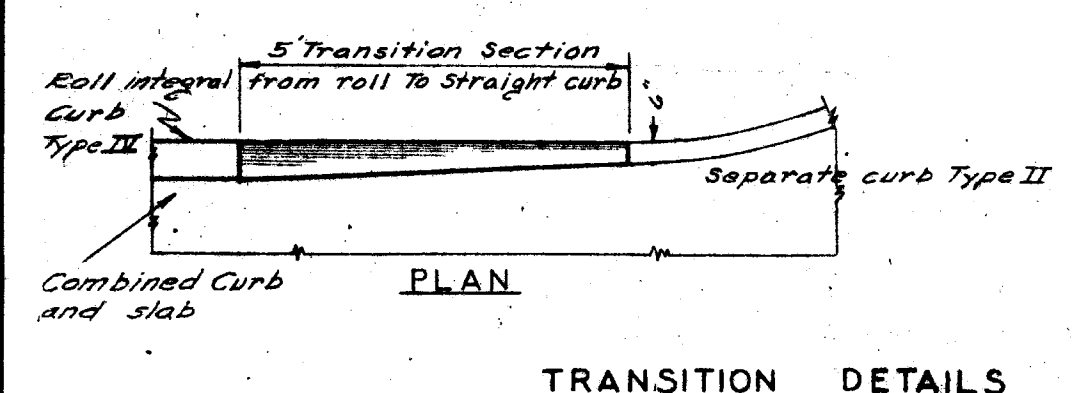
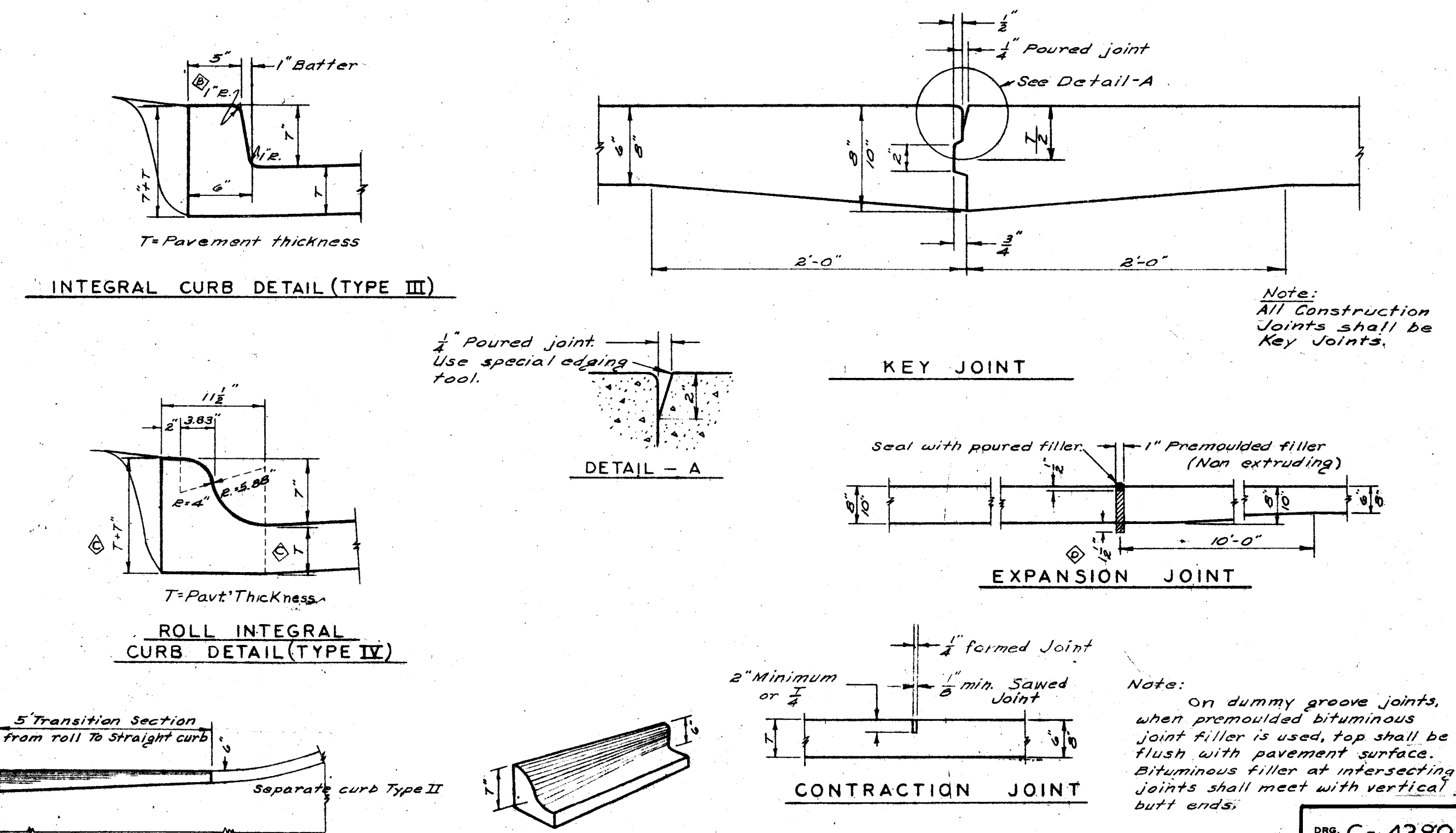
- EXPANSION JOINTS**
- PLACE 1/2\"/>

- CONTRACTION JOINTS**
- PLACE CONTRACTION JOINTS AT INTERVALS OF NOT LESS THAN 5' NOR MORE THAN 7' ON WALKS 5' WIDE OR WIDER, INCLUDING FULL WIDTH WALKS
 - PLACE CONTRACTION JOINTS AT INTERVALS OF NOT LESS THAN 4' NOR MORE THAN 7' ON WALKS 4' WIDE
 - PLACE CONTRACTION JOINTS AT THE MARGIN LINE ON FULL WIDTH WALKS (OPTIONAL)
 - PLACE CONTRACTION JOINTS IN DRIVEWAYS SO THAT NO STONE WILL EXCEED THE DIMENSIONS OF 15' BY 15'
- DRIVEWAYS**
- PLACE 1\"/>

- LEGEND**
- LOT, PROPERTY AND CURB LINES
 - WALK AND DRIVEWAY AREA
 - EXPANSION JOINT
 - EXPANSION JOINT ALTERNATE POSITION
 - CONTRACTION JOINT
 - CONTRACTION JOINT ALTERNATE POSITION
 - MARGIN LINE

VARIAION FROM THIS PLAN MUST BE APPROVED BY THE ENGINEER

DRG. NO. C-4462
SIDEWALK JOINTING STANDARD



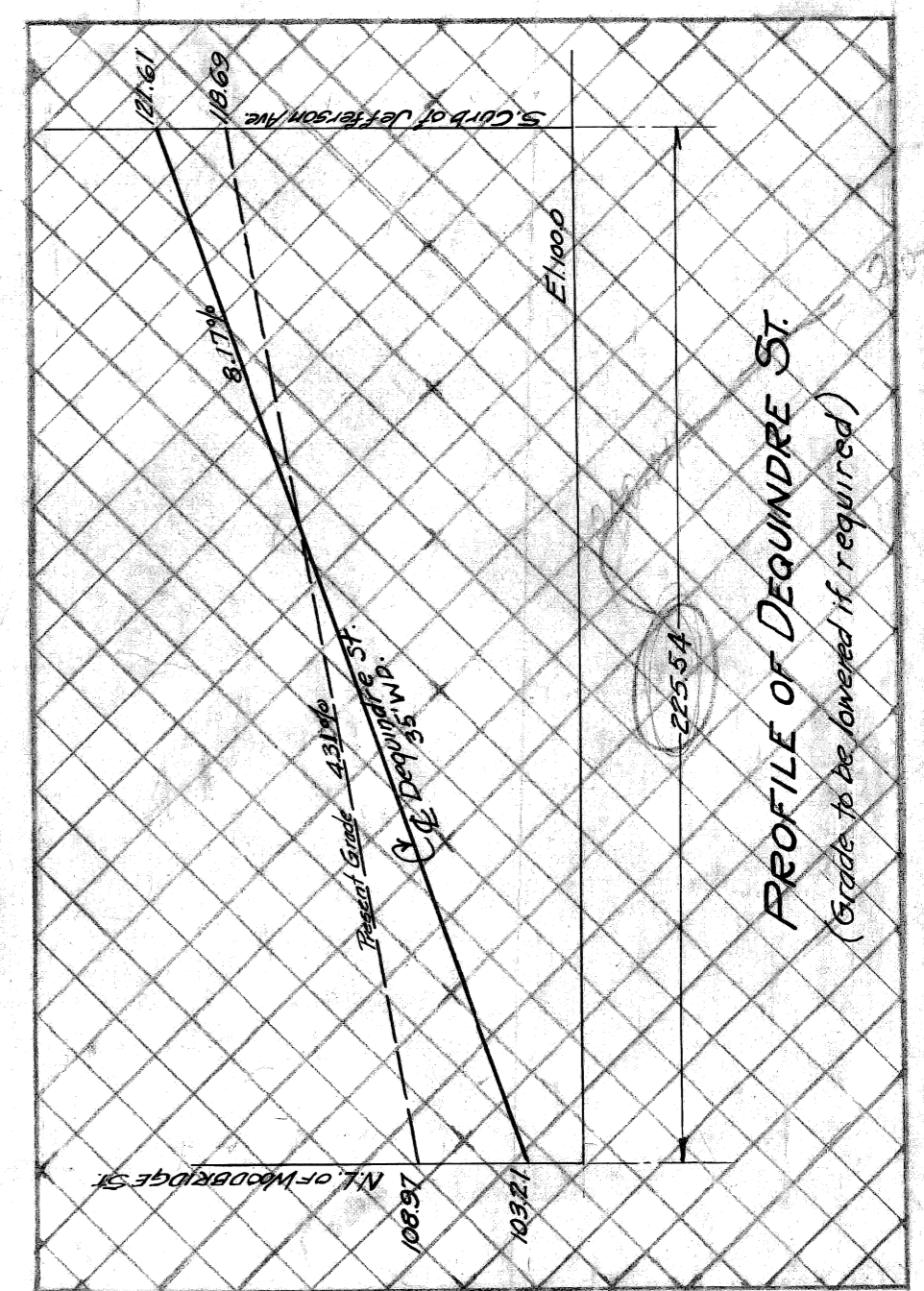
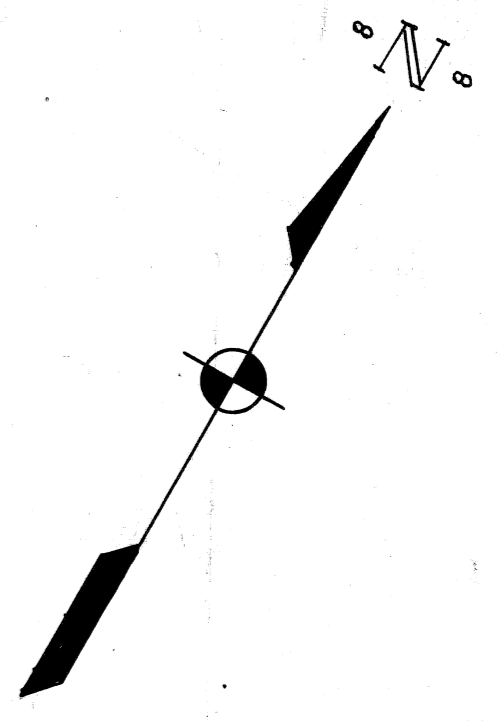
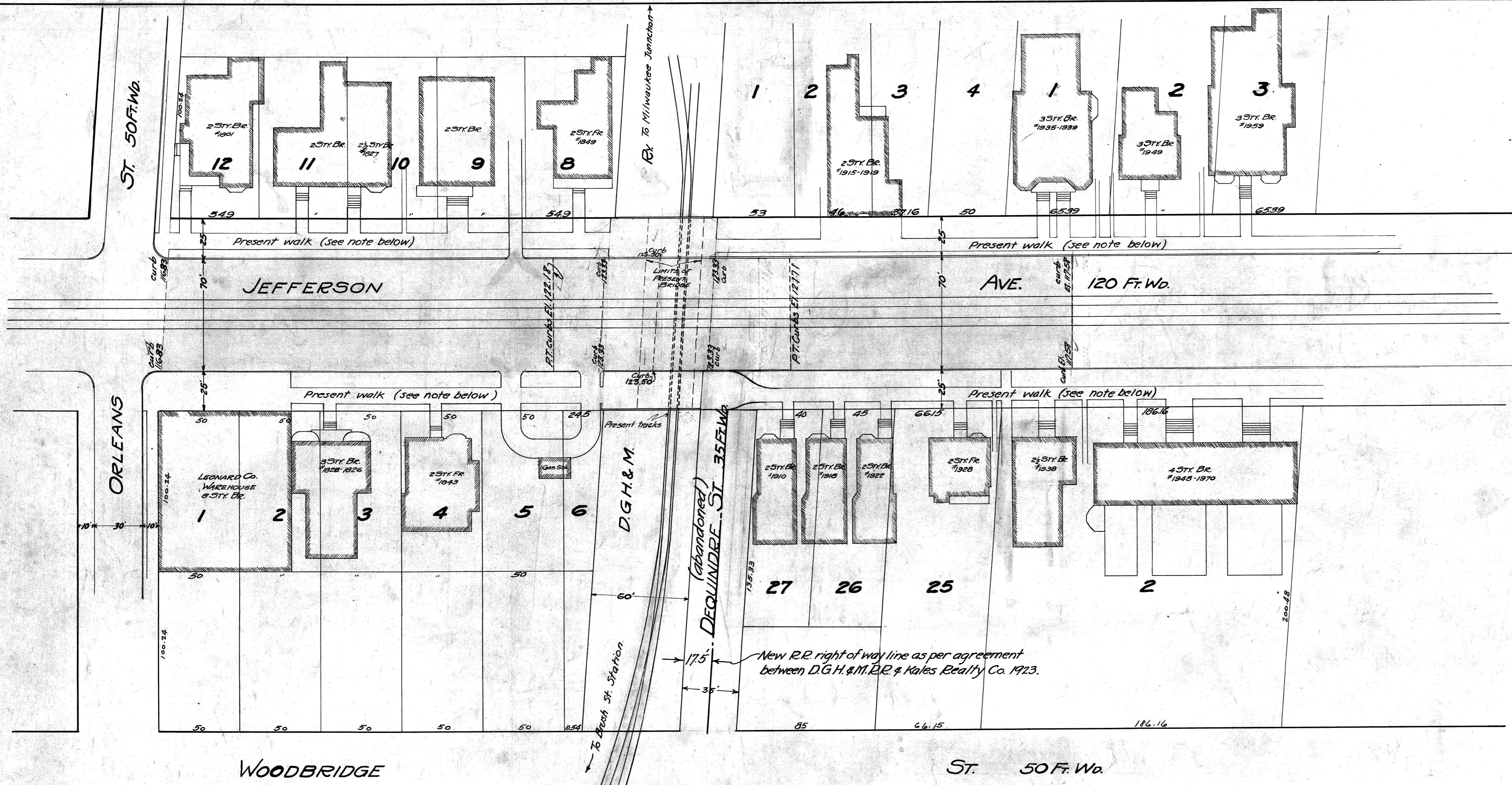
DRG. NO. C-4380
DETAILS OF STANDARD CURBS AND JOINTS

DESIGNED BY	—	APPROVED	<i>R. C. Leduc</i> STRUCTURAL ENGINEER
DRAWN BY	—	CHECKED BY	<i>apost. Bernarducci</i> ASSOCIATE CITY ENGINEER
TRACED BY	<i>A.J.G.</i>	CITY ENGINEER	—
CHECKED BY	<i>Locher</i> <i>I.H.S.</i>		

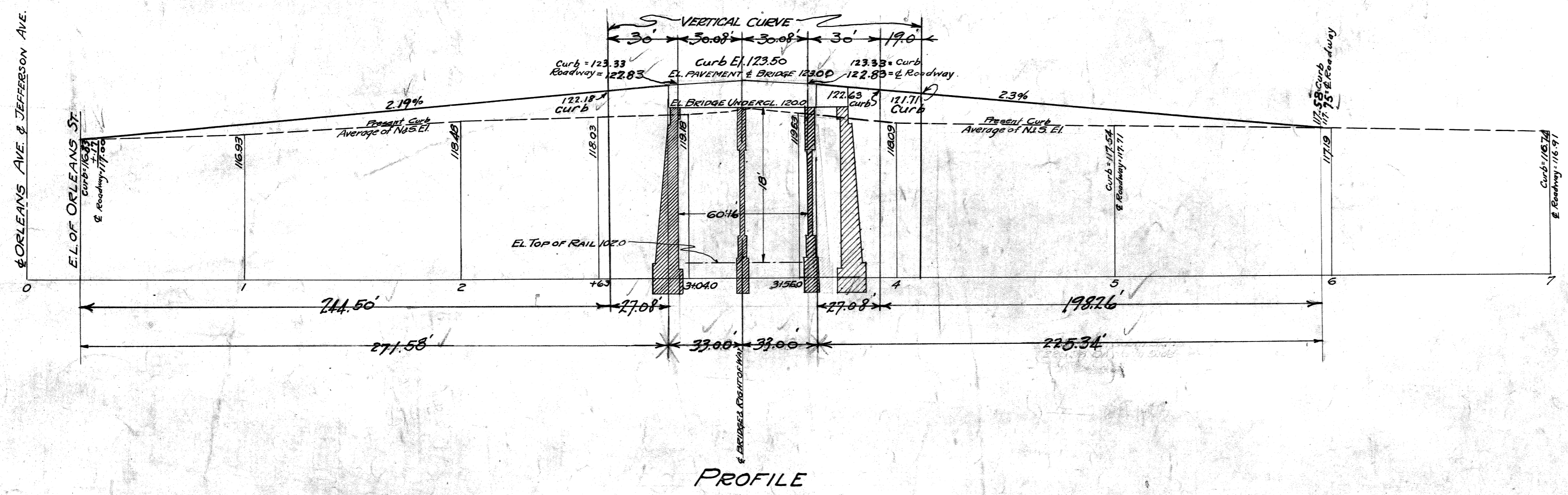
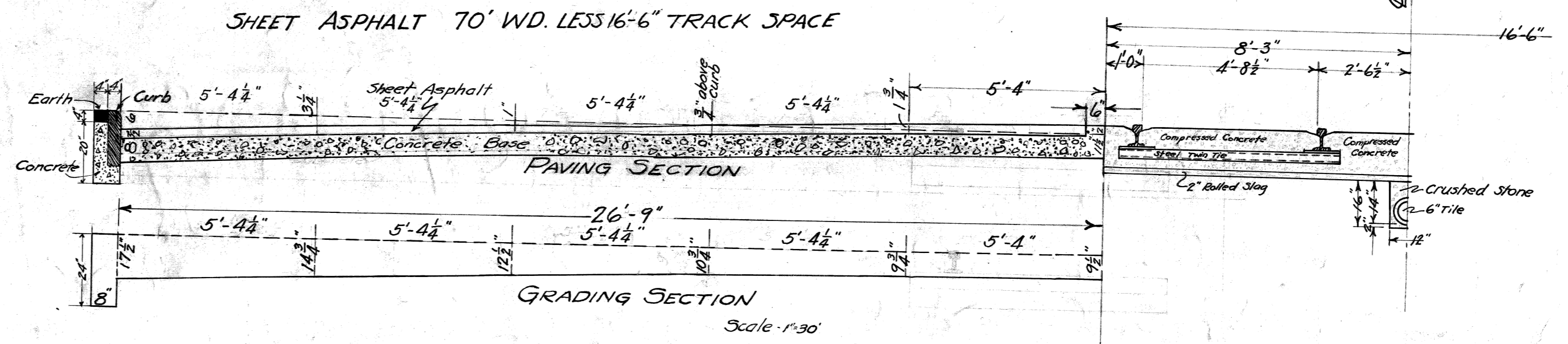
CITY OF DETROIT
 DEPARTMENT OF PUBLIC WORKS
 HIGHWAY & EXPRESSWAY DIVISION
BRIDGE WIDENING

JEFFERSON AVE. BRIDGE X068
 OVER
G.T.W.R.R.
STANDARD DETAILS

SHEET	8	OF	8	SHEETS
JOB No.	PW 5752			
DRWG No.	C-106			
DATE	JAN. 1967			



NOTE:
Sidewalks between Orleans & D.G.H. & M. R.R. to be 10' wide, except in front of Leonard Co. Warehouse which will be full width as at present. Outside edge of 10' walks to be 3' from curb on both sides of street. Sidewalks east of the R.R. to be rebuilt in present location & to be 8' in width. Sidewalks to be built in accordance with D. R. W. sidewalk specifications.



APPROVED: April 26th, 1923

John W. Davis
CITY ENGINEER

James M. Williams
CHIEF ENGINEER G.T.R. SYSTEM WESTERN LINE.

CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERS OFFICE
DEPARTMENT OF GRADE SEPARATION & BRIDGES
DEQUINDRE ST. GRADE SEPARATION
JEFFERSON AVE.

Made by L.M. Scales Feb. 1923
Checked by R.S. Plan 1"=40'
Vertical 1"=10'